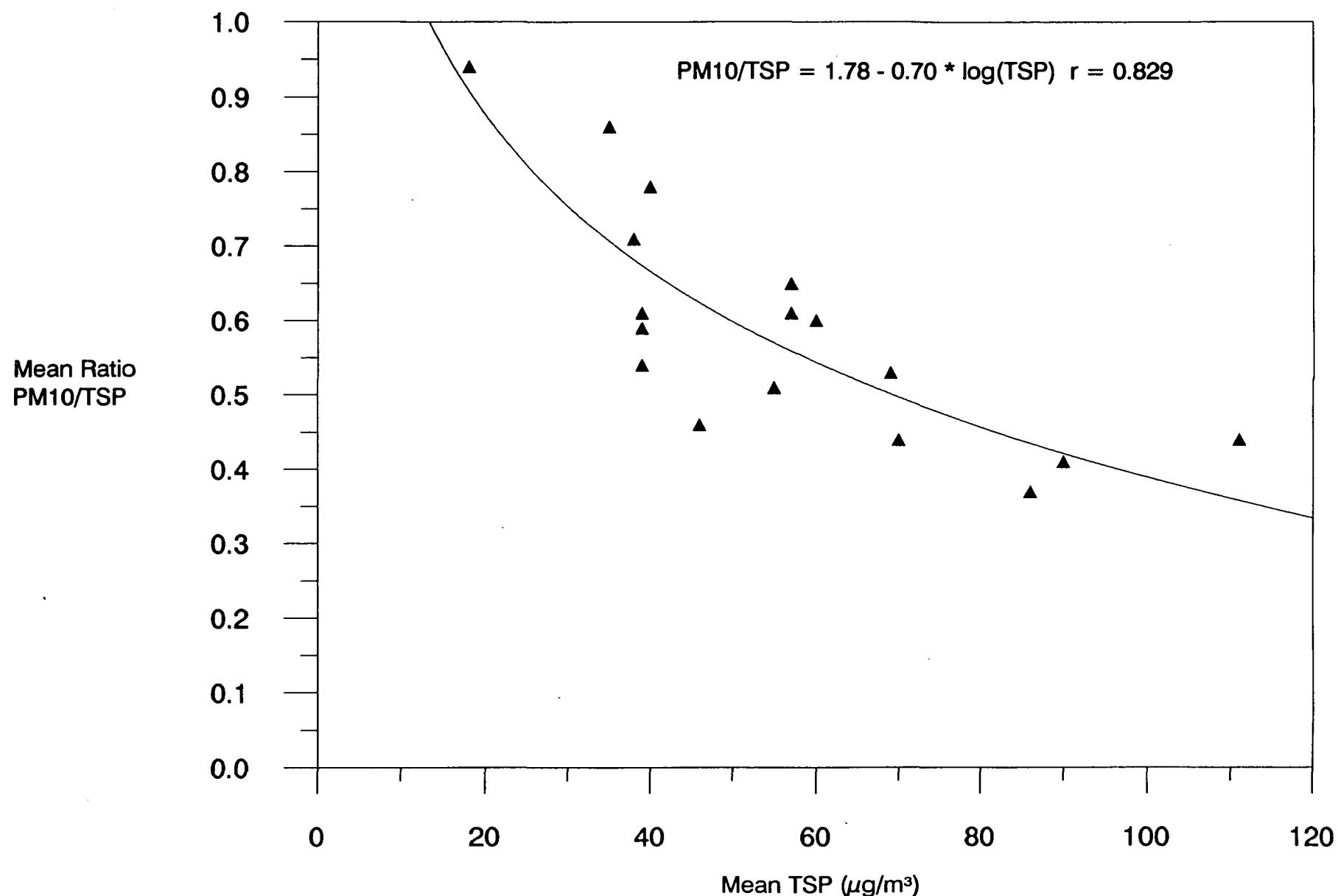


**Figure 11 : Mean PM10/TSP Ratio vs Mean TSP  
(1984-1987 All Sites)**



**TABLE 18 - CONVERSION of EXISTING TSP AQO to PM<sub>10</sub> EQUIVALENT**

AQO Definition	Avg Time	TSP ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )
Acceptable	24h	120	60
	Annual	70	35
Tolerable	24h	400	90

A comparison of sulphate levels measured on the dichotomous sampler and SSI hi-vols to that measured by the standard hi-vols is given in *Table 19*. The Toronto and Windsor sites had the largest mean sulphate differences due primarily to the fact that the hi-vols at these two sites used glass fibre hi-vol filter media which is known to result in a large sulphate artifact. For all sites, except Edmonton (SSI) and St. John's, the PM<sub>10</sub> sulphate measurement was lower than the hi-vol sulphate measurement.

A similar analysis of PM<sub>10</sub> sampler nitrate measurement vs hi-vol nitrate measurements is provided in *Table 20*. Particulate nitrate concentrations were quite low and mean differences between PM<sub>10</sub> samplers and hi-vol samplers are correspondingly small. The largest differences were again at the Toronto and Windsor sites. As discussed in Section 5.2.3, particulate nitrates can be lost by volatilization from teflon filters in low flow samplers such as the dichotomous sampler. It is a matter of debate on how closely nitrate measurements made by either PM<sub>10</sub> or hi-vol samplers using low artifact filter media approximately true ambient particulate nitrate concentrations.

In *Table 21*, a comparison of lead measurements made with the PM<sub>10</sub> sampler vs the hi-vol sampler is provided. At all sites, except Regina and St. John's, the mean PM<sub>10</sub> lead concentrations were lower than the corresponding hi-vol lead measurements, although mean differences were

small. Dichotomous sampler lead data are reported to one more significant digit than are hi-vol lead measurements. Because of the very low lead levels now measured at most sites, the dichotomous sampler lead data should be more accurate than the hi-vol lead data. As shown in *Table 2*, a number of agencies perform lead analyses on the hi-vol filter while all dichotomous sampler lead analyses were performed by CD, Ottawa. Based on data in *Table 21*, there is good correspondence between Canadian labs carrying out lead analyses.

## 6. CURRENT and FUTURE ACTIVITIES

Sampling is continuing at all the dichotomous sampler and SSI sites noted in *Table 1*. Additional SSI samplers have been installed in five cities in Ontario (Toronto, Hamilton, Windsor, Sault Ste. Marie and Thunder Bay) and at one city in Saskatchewan (Saskatoon). PMD plans to add four or five additional SSI samplers to the network in 1990/91. A large scale expansion of the PM<sub>10</sub> sampling network is not planned at this time due to the uncertainties related to the revision of particulate matter national ambient air quality objectives. The Federal Provincial Advisory Committee on Air Quality (FPACAQ) Sub-committee on Air Quality Objectives recently indicated that a PM<sub>10</sub> standard could not be set at this time. It also noted that 10  $\mu\text{m}$  particulates may not necessarily be the size fraction of most interest. It is likely that the development of a revised particulate matter air quality objective by this committee will take another one to two years.

**Table 19: Comparison of PM10 and TSP (SO<sub>4</sub>)  
(May 1984 - December 1987)**

Station Number	City	SSI(S) Dich(D)	No. of Samples	Mean PM10 ( $\mu\text{g}/\text{m}^3$ )	Mean TSP ( $\mu\text{g}/\text{m}^3$ )	Mean Ratio PM10/TSP	Std. Dev. Ratio
10101	ST. JOHN'S	D	33	2.8	2.5	1.65	1.32
30101	HALIFAX	D	163	5.5	6.2	0.87	0.29
30311	SYDNEY	S	171	4.3	4.7	0.96	0.41
40201	SAINt JOHN	S	183	5.1	5.3	1.06	0.59
50104	MONTRÉAL	D	173	4.6	5.3	1.03	0.95
50109	MONTRÉAL	D	129	4.8	4.8	1.19	1.02
50307	QUEBEC CITY	D	65	2.9	4.4	0.76	0.80
60104	OTTAWA	D	204	3.9	5.2	0.69	0.26
60417	TORONTO	D	150	5.0	9.1	0.55	0.47
60204	WINDSOR	D	21	7.2	15.2	0.42	0.19
70119	WINNIPEG	D	164	1.9	2.4	0.83	0.31
80110	REGINA	S	176	2.3	2.3	1.01	0.30
90130	EDMONTON	D	147	1.7	2.4	1.02	0.72
90204	CALGARY	D	166	1.9	2.6	0.82	0.37
00118	VANCOUVER	D	107	2.6	3.4	0.77	0.26
00111	VANCOUVER	D	147	2.4	3.5	0.70	0.31
00303	VICTORIA	D	113	2.2	3.9	0.58	0.31
60104	OTTAWA	S	211	4.7	5.2	0.90	0.27
90130	EDMONTON	S	166	2.9	2.3	1.83	1.06

**Table 20: Comparison of PM10 and TSP (NO3)**  
**(May 1984 - December 1987)**

Station No.	City	SSI(S) Dich(D)	No. of Samples	Mean PM10 NO3 ( $\mu\text{g}/\text{m}^3$ )	Mean TSP NO3 ( $\mu\text{g}/\text{m}^3$ )	Mean Ratio PM10/TSP	Std. Dev. Ratio
10101	ST. JOHN'S	D	34	0.4	0.4	1.11	0.70
30101	HALIFAX	D	163	0.6	0.7	1.13	1.33
30311	SYDNEY	S	170	0.6	0.5	1.35	0.72
40201	SAINT JOHN	S	183	0.8	0.8	1.19	0.97
50104	MONTREAL	D	173	1.5	2.0	1.13	3.37
50109	MONTREAL	D	128	1.6	1.8	1.16	1.54
50307	QUEBEC CITY	D	65	0.9	1.6	0.66	0.64
60104	OTTAWA	D	202	0.9	1.1	1.08	1.21
60417	TORONTO	D	150	1.7	4.3	0.51	0.60
60204	WINDSOR	D	21	1.4	4.7	0.42	0.61
70119	WINNIPEG	D	163	0.7	1.3	0.97	1.61
80110	REGINA	S	176	0.8	0.8	1.15	0.64
90130	EDMONTON	D	147	1.0	1.2	1.03	1.04
90204	CALGARY	D	166	1.0	1.3	0.82	0.72
00118	VANCOUVER	D	107	1.1	1.2	1.14	0.85
00111	VANCOUVER	D	150	1.0	1.1	1.11	0.81
00303	VICTORIA	D	113	0.9	1.1	0.97	0.85
60104	OTTAWA	S	212	0.8	1.0	0.94	0.77
90130	EDMONTON	S	166	1.2	1.2	1.92	8.13

**Table 21: Comparison of PM10 and TSP (Pb)  
(May 1984 - December 1987)**

Station No.	City	SSI(S) Dichot(D)	No. of Samples	Mean PM10 Pb ( $\mu\text{g}/\text{m}^3$ )	Mean TSP Pb ( $\mu\text{g}/\text{m}^3$ )	Mean Ratio PM10/TSP	Std. Dev. Ratio
10101	ST. JOHN'S	D	28	0.11	0.09	1.01	0.72
30101	HALIFAX	D	86	0.05	0.07	0.64	0.37
30311	SYDNEY	S	171	0.14	0.15	0.84	0.42
40201	SAINt JOHN	S	183	0.07	0.09	0.76	0.59
50104	MONTRÉAL	D	89	0.26	0.37	0.77	0.55
50109	MONTRÉAL	D	54	0.54	0.67	0.88	0.65
50307	QUEBEC CITY	D	37	0.23	0.28	0.88	0.37
60104	OTTAWA	D	106	0.12	0.17	0.65	0.25
60417	TORONTO	D	74	0.20	0.25	0.85	0.53
70119	WINNIPEG	D	65	0.11	0.19	0.69	0.68
80110	REGINA	S	194	0.23	0.22	1.00	0.50
90130	EDMONTON	D	97	0.27	0.35	0.79	0.27
90204	CALGARY	D	82	0.28	0.37	0.68	0.16
00118	VANCOUVER	D	54	0.36	0.43	0.85	0.28
00111	VANCOUVER	D	65	0.35	0.41	0.83	0.20
00303	VICTORIA	D	33	0.30	0.36	0.81	0.20
60104	OTTAWA	S	212	0.12	0.14	0.85	0.40
90130	EDMONTON	S	201	0.25	0.29	0.87	0.28

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## **APPENDIX A**

### **MEAN CONCENTRATIONS of ELEMENTS MEASURED by EDXRF**

**Table A1 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Mass**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	13	13	26	1.16	0.57
50104	MONTREAL	54	12	19	32	1.89	1.36
50109	MONTREAL	40	26	22	48	0.89	0.47
50307	QUEBEC CITY	53	11	13	24	1.76	1.96
60104	OTTAWA	47	10	14	24	1.93	1.73
60417	TORONTO	39	12	15	27	1.58	1.23
70119	WINNIPEG	40	19	11	30	1.04	1.12
90130	EDMONTON	34	22	12	33	0.73	0.88
90204	CALGARY	49	17	12	29	0.87	0.72
00118	VANCOUVER	38	11	18	30	1.66	0.89
00111	VANCOUVER	68	17	15	32	1.24	0.91
00303	VICTORIA	54	7	14	21	2.29	1.55
60204	WINDSOR	67	16	21	37	1.37	0.64
61901	WALPOLE ISLAND	23	11	16	27	1.79	1.11

**Table A2 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Sulphate (SO<sub>4</sub>)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.4	4.4	4.8	14.85	22.52
50104	MONTREAL	56	0.5	4.0	4.5	11.28	11.71
50109	MONTREAL	39	0.5	4.4	4.9	17.71	42.98
50307	QUEBEC CITY	51	0.4	2.4	2.8	8.28	7.40
60104	OTTAWA	46	0.3	3.6	3.9	15.28	18.18
60417	TORONTO	39	0.4	3.7	4.1	11.39	5.52
70119	WINNIPEG	40	0.3	1.4	1.7	6.94	5.25
90130	EDMONTON	34	0.2	1.3	1.5	6.67	7.01
90204	CALGARY	49	0.3	1.3	1.6	6.65	10.60
00118	VANCOUVER	37	0.3	2.0	2.3	7.80	4.37
00111	VANCOUVER	65	0.3	1.8	2.1	6.84	4.31
00303	VICTORIA	54	0.3	1.7	2.0	6.99	4.75
60204	WINDSOR	67	0.4	6.2	6.7	14.44	13.56
61901	WALPOLE ISLAND	23	0.3	4.4	4.7	14.07	7.49

**Table A3 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Nitrate (NO<sub>3</sub>)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.4	0.3	0.7	1.02	0.60
50104	MONTREAL	56	0.5	1.4	1.9	3.97	7.79
50109	MONTREAL	39	0.5	0.8	1.4	1.78	2.45
50307	QUEBEC CITY	51	0.4	0.6	1.0	1.68	1.05
60104	OTTAWA	46	0.5	0.8	1.3	1.48	1.93
60417	TORONTO	39	0.6	1.1	1.6	1.92	2.82
70119	WINNIPEG	40	0.3	0.4	0.8	1.63	2.08
90130	EDMONTON	34	0.3	0.5	0.8	1.72	1.72
90204	CALGARY	49	0.3	0.8	1.1	2.28	2.77
00118	VANCOUVER	37	0.5	0.7	1.2	1.57	1.62
00111	VANCOUVER	65	0.5	0.4	0.9	1.09	0.98
00303	VICTORIA	54	0.4	0.5	0.9	1.60	1.44
60204	WINDSOR	67	0.6	0.7	1.2	1.54	1.88
61901	WALPOLE ISLAND	23	0.4	0.2	0.6	0.77	0.69

**Table A4 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Aluminum (Al)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	1.062	0.404	1.465	0.49	1.13
50104	MONTREAL	56	0.502	0.128	0.630	0.34	0.29
50109	MONTREAL	40	1.284	0.330	1.614	0.23	0.10
50307	QUEBEC CITY	53	0.204	0.057	0.261	0.70	0.92
60104	OTTAWA	47	0.307	0.073	0.379	0.45	0.45
60417	TORONTO	41	0.240	0.060	0.300	0.38	0.42
70119	WINNIPEG	40	0.526	0.195	0.721	0.39	0.38
90130	EDMONTON	34	1.451	0.298	1.750	0.18	0.10
90204	CALGARY	49	0.354	0.089	0.443	0.30	0.24
00118	VANCOUVER	38	0.396	0.159	0.555	0.50	0.29
00111	VANCOUVER	68	0.983	0.303	1.286	0.42	0.42
00303	VICTORIA	54	0.141	0.056	0.197	0.56	0.88
60204	WINDSOR	67	0.818	0.209	1.027	0.23	0.29
61901	WALPOLE ISLAND	23	0.203	0.056	0.259	0.25	0.30

**Table A5 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Silicon (Si)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.499	0.108	0.606	0.36	0.32
50104	MONTREAL	56	0.653	0.211	0.864	0.47	0.38
50109	MONTREAL	40	1.073	0.180	1.253	0.18	0.10
50307	QUEBEC CITY	53	0.515	0.088	0.603	0.37	0.53
60104	OTTAWA	47	0.497	0.084	0.581	0.31	0.34
60417	TORONTO	41	0.675	0.093	0.768	0.18	0.11
70119	WINNIPEG	40	1.054	0.232	1.286	0.35	0.38
90130	EDMONTON	34	2.076	0.136	2.212	0.08	0.06
90204	CALGARY	49	1.432	0.225	1.657	0.16	0.06
00118	VANCOUVER	38	0.424	0.101	0.526	0.27	0.15
00111	VANCOUVER	68	0.478	0.119	0.596	0.36	0.59
00303	VICTORIA	54	0.289	0.050	0.339	0.27	0.92
60204	WINDSOR	67	0.568	0.101	0.669	0.23	0.25
61901	WALPOLE ISLAND	23	0.569	0.089	0.658	0.42	0.67

**Table A6 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Phosphorus (P)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.011	0.032	0.043	5.41	6.23
50104	MONTREAL	56	0.024	0.069	0.093	3.19	2.95
50109	MONTREAL	40	0.032	0.061	0.094	2.73	3.36
50307	QUEBEC CITY	53	0.014	0.026	0.041	7.22	25.15
60104	OTTAWA	47	0.015	0.031	0.046	3.59	4.22
60417	TORONTO	41	0.016	0.027	0.042	2.75	2.51
70119	WINNIPEG	40	0.018	0.011	0.029	0.83	1.11
90130	EDMONTON	34	0.017	0.011	0.028	0.88	1.35
90204	CALGARY	49	0.029	0.025	0.054	1.06	0.77
00118	VANCOUVER	38	0.016	0.022	0.039	2.15	2.15
00111	VANCOUVER	68	0.014	0.020	0.034	2.58	4.69
00303	VICTORIA	54	0.007	0.016	0.024	2.80	3.57
60204	WINDSOR	67	0.015	0.032	0.047	3.14	3.62
61901	WALPOLE ISLAND	23	0.009	0.020	0.030	1.87	1.79

**Table A7 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Sulphur (S)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.225	2.057	2.282	11.77	14.22
50104	MONTREAL	56	0.208	1.799	2.006	10.15	6.13
50109	MONTREAL	40	0.277	1.851	2.128	7.41	4.61
50307	QUEBEC CITY	53	0.226	1.120	1.345	7.18	6.61
60104	OTTAWA	47	0.135	1.606	1.741	14.84	12.97
60417	TORONTO	41	0.179	1.720	1.899	12.97	8.45
70119	WINNIPEG	40	0.122	0.714	0.836	20.65	69.61
90130	EDMONTON	34	0.120	0.615	0.735	5.47	3.53
90204	CALGARY	49	0.117	0.643	0.760	6.59	5.13
00118	VANCOUVER	38	0.149	0.985	1.134	8.94	7.61
00111	VANCOUVER	68	0.177	0.974	1.151	7.84	6.58
00303	VICTORIA	54	0.121	0.768	0.889	7.23	4.87
60204	WINDSOR	67	0.223	2.404	2.627	14.01	11.21
61901	WALPOLE ISLAND	23	0.119	1.872	1.991	17.03	9.94

**Table A8 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Chlorine (Cl)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.613	0.053	0.666	0.11	0.13
50104	MONTREAL	56	0.429	0.126	0.554	0.48	0.56
50109	MONTREAL	40	0.808	0.178	0.986	0.50	0.90
50307	QUEBEC CITY	53	0.389	0.095	0.484	0.90	2.52
60104	OTTAWA	47	0.268	0.033	0.301	0.29	0.38
60417	TORONTO	41	0.266	0.032	0.299	0.42	0.72
70119	WINNIPEG	40	0.153	0.021	0.174	0.39	0.57
90130	EDMONTON	34	0.222	0.067	0.289	0.41	0.53
90204	CALGARY	49	0.451	0.155	0.606	0.43	0.60
00118	VANCOUVER	38	0.453	0.243	0.697	1.02	1.58
00111	VANCOUVER	68	0.280	0.082	0.363	0.38	0.55
00303	VICTORIA	54	0.531	0.176	0.706	1.98	6.17
60204	WINDSOR	67	0.261	0.070	0.330	0.32	0.63
61901	WALPOLE ISLAND	23	0.027	0.009	0.037	0.61	1.05

**Table A9 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Potassium (K)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.073	0.038	0.111	0.80	0.80
50104	MONTREAL	56	0.102	0.095	0.197	1.47	1.38
50109	MONTREAL	40	0.181	0.107	0.289	0.80	0.88
50307	QUEBEC CITY	53	0.083	0.081	0.163	2.22	3.72
60104	OTTAWA	47	0.092	0.059	0.150	1.38	1.77
60417	TORONTO	41	0.086	0.063	0.148	1.26	1.24
70119	WINNIPEG	40	0.120	0.051	0.171	1.14	3.18
90130	EDMONTON	34	0.152	0.039	0.191	0.42	0.57
90204	CALGARY	49	0.126	0.052	0.178	0.49	0.33
00118	VANCOUVER	38	0.049	0.140	0.189	3.75	2.51
00111	VANCOUVER	68	0.048	0.079	0.128	2.63	3.46
00303	VICTORIA	54	0.035	0.071	0.105	2.28	2.44
60204	WINDSOR	67	0.111	0.135	0.246	1.53	1.88
61901	WALPOLE ISLAND	23	0.097	0.061	0.157	1.37	2.72

**Table A10 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Calcium (Ca)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.116	0.020	0.136	0.26	0.35
50104	MONTREAL	56	0.999	0.136	1.135	0.17	0.08
50109	MONTREAL	40	1.616	0.091	1.707	0.26	1.18
50307	QUEBEC CITY	53	0.716	0.056	0.772	0.16	0.36
60104	OTTAWA	47	0.717	0.038	0.755	0.07	0.05
60417	TORONTO	41	0.913	0.049	0.962	0.08	0.07
70119	WINNIPEG	40	1.542	0.117	1.659	0.11	0.12
90130	EDMONTON	34	0.583	0.048	0.631	0.10	0.06
90204	CALGARY	49	1.353	0.165	1.518	0.13	0.04
00118	VANCOUVER	38	0.240	0.040	0.280	0.21	0.15
00111	VANCOUVER	68	0.210	0.031	0.241	0.26	1.11
00303	VICTORIA	54	0.102	0.020	0.123	0.27	0.83
60204	WINDSOR	67	1.006	0.078	1.084	0.08	0.05
61901	WALPOLE ISLAND	23	0.478	0.041	0.519	0.12	0.10

**Table A11 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Scandium (Sc)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.002	0.000	0.002	0.00	0.00
50104	MONTREAL	56	0.010	0.001	0.011	0.12	0.34
50109	MONTREAL	40	0.016	0.001	0.017	0.07	0.15
50307	QUEBEC CITY	53	0.008	0.001	0.008	0.13	0.38
60104	OTTAWA	47	0.008	0.001	0.008	0.05	0.16
60417	TORONTO	41	0.012	0.000	0.012	0.01	0.03
70119	WINNIPEG	40	0.013	0.001	0.014	0.09	0.26
90130	EDMONTON	34	0.007	0.001	0.008	0.14	0.26
90204	CALGARY	49	0.016	0.001	0.017	0.13	0.27
00118	VANCOUVER	38	0.002	0.001	0.003	0.16	0.45
00111	VANCOUVER	68	0.005	0.001	0.006	0.10	0.20
00303	VICTORIA	54	0.002	0.001	0.002	0.34	1.03
60204	WINDSOR	67	0.013	0.002	0.014	0.11	0.24
61901	WALPOLE ISLAND	23	0.008	0.002	0.009	0.27	0.59

**Table A12 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Titanium (Ti)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.019	0.006	0.025	0.32	0.37
50104	MONTREAL	56	0.036	0.016	0.052	0.43	0.34
50109	MONTREAL	40	0.064	0.016	0.080	0.26	0.14
50307	QUEBEC CITY	53	0.026	0.007	0.032	0.30	0.38
60104	OTTAWA	47	0.020	0.005	0.025	0.28	0.33
60417	TORONTO	41	0.031	0.005	0.036	0.12	0.15
70119	WINNIPEG	40	0.027	0.005	0.031	0.19	0.19
90130	EDMONTON	34	0.053	0.006	0.058	0.13	0.15
90204	CALGARY	49	0.034	0.008	0.042	0.23	0.21
00118	VANCOUVER	38	0.022	0.008	0.030	0.40	0.74
00111	VANCOUVER	68	0.047	0.012	0.059	0.31	0.58
00303	VICTORIA	54	0.017	0.005	0.022	0.47	1.32
60204	WINDSOR	67	0.033	0.006	0.039	0.17	0.19
61901	WALPOLE ISLAND	23	0.021	0.003	0.024	0.12	0.19

**Table A13 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Vanadium (V)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.034	0.096	0.130	3.01	0.91
50104	MONTREAL	56	0.005	0.010	0.015	1.84	1.25
50109	MONTREAL	40	0.010	0.010	0.021	1.01	0.62
50307	QUEBEC CITY	53	0.004	0.009	0.013	1.91	1.33
60104	OTTAWA	47	0.003	0.005	0.008	1.02	0.95
60417	TORONTO	41	0.004	0.003	0.006	0.77	0.59
70119	WINNIPEG	39	0.003	0.001	0.005	0.37	0.47
90130	EDMONTON	34	0.007	0.003	0.010	0.42	0.54
90204	CALGARY	49	0.006	0.003	0.009	0.45	0.48
00118	VANCOUVER	38	0.004	0.008	0.012	1.57	0.87
00111	VANCOUVER	68	0.005	0.006	0.011	1.10	0.58
00303	VICTORIA	54	0.004	0.009	0.013	1.82	0.65
60204	WINDSOR	67	0.005	0.003	0.007	0.48	0.51
61901	WALPOLE ISLAND	23	0.002	0.001	0.002	0.43	0.63

**Table A14 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Chromium (Cr)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.005	0.003	0.008	0.67	0.59
50104	MONTREAL	56	0.005	0.005	0.010	0.86	0.61
50109	MONTREAL	40	0.009	0.005	0.014	0.55	0.26
50307	QUEBEC CITY	53	0.003	0.002	0.005	0.67	0.72
60104	OTTAWA	47	0.003	0.003	0.005	0.75	0.53
60417	TORONTO	41	0.004	0.003	0.007	0.57	0.61
70119	WINNIPEG	40	0.003	0.002	0.005	0.42	0.55
90130	EDMONTON	34	0.008	0.005	0.013	0.58	0.48
90204	CALGARY	49	0.005	0.004	0.009	0.71	0.46
00118	VANCOUVER	38	0.004	0.003	0.007	0.68	0.56
00111	VANCOUVER	68	0.007	0.004	0.012	0.59	0.46
00303	VICTORIA	54	0.002	0.003	0.005	1.07	0.57
60204	WINDSOR	67	0.005	0.002	0.007	0.43	0.52
61901	WALPOLE ISLAND	23	0.001	0.001	0.001	0.00	0.00

**Table A15 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Manganese (Mn)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.007	0.010	0.016	1.73	0.94
50104	MONTREAL	56	0.020	0.033	0.053	2.01	0.90
50109	MONTREAL	40	0.036	0.047	0.083	1.49	0.53
50307	QUEBEC CITY	53	0.010	0.014	0.024	1.74	0.84
60104	OTTAWA	47	0.010	0.013	0.023	1.58	0.78
60417	TORONTO	41	0.013	0.015	0.028	1.40	0.49
70119	WINNIPEG	40	0.009	0.008	0.017	1.19	1.10
90130	EDMONTON	34	0.019	0.012	0.031	0.77	0.48
90204	CALGARY	49	0.012	0.013	0.025	1.08	0.49
00118	VANCOUVER	38	0.010	0.024	0.035	2.49	0.93
00111	VANCOUVER	68	0.013	0.018	0.031	1.59	1.01
00303	VICTORIA	54	0.006	0.013	0.020	2.21	1.24
60204	WINDSOR	67	0.017	0.015	0.033	1.03	0.60
61901	WALPOLE ISLAND	23	0.006	0.004	0.010	0.73	0.62

**Table A16 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Iron (Fe)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.218	0.049	0.266	0.31	0.18
50104	MONTREAL	56	0.309	0.121	0.430	0.43	0.20
50109	MONTREAL	40	0.630	0.148	0.778	0.24	0.10
50307	QUEBEC CITY	53	0.237	0.047	0.285	0.35	0.50
60104	OTTAWA	47	0.189	0.040	0.229	0.28	0.16
60417	TORONTO	41	0.349	0.080	0.429	0.27	0.13
70119	WINNIPEG	40	0.271	0.055	0.326	0.30	0.27
90130	EDMONTON	34	0.620	0.064	0.684	0.12	0.06
90204	CALGARY	49	0.386	0.100	0.487	0.27	0.08
00118	VANCOUVER	38	0.238	0.076	0.313	0.35	0.13
00111	VANCOUVER	68	0.349	0.096	0.445	0.35	0.59
00303	VICTORIA	54	0.144	0.035	0.179	0.37	1.05
60204	WINDSOR	67	0.542	0.187	0.729	0.33	0.15
61901	WALPOLE ISLAND	23	0.184	0.048	0.232	0.34	0.24

**Table A17 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Cobalt (Co)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.002	0.001	0.003	0.45	0.49
50104	MONTREAL	56	0.002	0.001	0.003	0.49	0.48
50109	MONTREAL	40	0.004	0.001	0.005	0.33	0.32
50307	QUEBEC CITY	53	0.002	0.001	0.002	0.49	0.76
60104	OTTAWA	47	0.001	0.001	0.002	0.56	0.53
60417	TORONTO	41	0.002	0.001	0.003	0.38	0.44
70119	WINNIPEG	40	0.002	0.000	0.002	0.13	0.32
90130	EDMONTON	34	0.004	0.001	0.005	0.25	0.31
90204	CALGARY	49	0.003	0.001	0.004	0.39	0.49
00118	VANCOUVER	38	0.002	0.001	0.003	0.60	0.50
00111	VANCOUVER	68	0.002	0.001	0.004	0.46	0.45
00303	VICTORIA	54	0.001	0.001	0.002	0.66	0.60
60204	WINDSOR	67	0.003	0.001	0.004	0.34	0.36
61901	WALPOLE ISLAND	23	0.001	0.000	0.001		

**Table A18 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Nickel (Ni)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.008	0.018	0.026	2.30	0.70
50104	MONTREAL	56	0.002	0.004	0.006	1.94	0.74
50109	MONTREAL	40	0.003	0.004	0.007	1.30	0.43
50307	QUEBEC CITY	53	0.002	0.003	0.005	1.61	0.83
60104	OTTAWA	47	0.002	0.002	0.003	1.07	0.71
60417	TORONTO	41	0.002	0.002	0.004	1.10	0.50
70119	WINNIPEG	40	0.001	0.001	0.002	0.66	0.74
90130	EDMONTON	34	0.002	0.001	0.004	0.68	0.60
90204	CALGARY	49	0.002	0.002	0.003	1.00	0.54
00118	VANCOUVER	38	0.002	0.004	0.006	2.02	0.90
00111	VANCOUVER	68	0.003	0.003	0.006	1.29	0.62
00303	VICTORIA	54	0.002	0.004	0.006	2.31	0.93
60204	WINDSOR	67	0.002	0.001	0.003	0.84	0.51
61901	WALPOLE ISLAND	23	0.001	0.000	0.001	0.36	0.62

**Table A19 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Copper (Cu)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.019	0.021	0.040	1.24	0.46
50104	MONTREAL	56	0.017	0.024	0.040	1.46	0.84
50109	MONTREAL	40	0.020	0.020	0.041	0.95	0.34
50307	QUEBEC CITY	53	0.017	0.014	0.032	1.26	0.70
60104	OTTAWA	47	0.013	0.018	0.031	1.32	0.48
60417	TORONTO	41	0.015	0.016	0.031	1.12	0.44
70119	WINNIPEG	40	0.013	0.016	0.029	1.25	0.44
90130	EDMONTON	34	0.017	0.022	0.039	1.41	0.76
90204	CALGARY	49	0.013	0.018	0.030	1.58	1.00
00118	VANCOUVER	38	0.018	0.015	0.033	0.85	0.49
00111	VANCOUVER	68	0.020	0.019	0.038	1.17	1.36
00303	VICTORIA	54	0.014	0.018	0.032	1.28	0.47
60204	WINDSOR	67	0.006	0.007	0.013	1.55	1.51
61901	WALPOLE ISLAND	23	0.004	0.003	0.007	0.80	0.65

**Table A20 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Zinc (Zn)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.024	0.019	0.043	3.53	4.46
50104	MONTREAL	56	0.033	0.049	0.082	1.97	1.06
50109	MONTREAL	40	0.064	0.060	0.124	1.66	2.73
50307	QUEBEC CITY	53	0.033	0.039	0.072	2.14	1.78
60104	OTTAWA	47	0.009	0.016	0.025	2.47	1.72
60417	TORONTO	41	0.017	0.038	0.055	2.39	1.26
70119	WINNIPEG	40	0.008	0.012	0.020	1.74	1.25
90130	EDMONTON	34	0.012	0.013	0.025	1.18	0.71
90204	CALGARY	49	0.011	0.014	0.025	1.39	0.98
00118	VANCOUVER	38	0.026	0.048	0.074	2.31	1.55
00111	VANCOUVER	68	0.020	0.022	0.041	1.79	1.45
00303	VICTORIA	54	0.006	0.021	0.027	3.84	3.38
60204	WINDSOR	67	0.046	0.093	0.138	2.48	1.51
61901	WALPOLE ISLAND	23	0.008	0.020	0.028	3.81	4.76

**Table A21 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Gallium (Ga)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.004	0.005	0.008	1.33	0.76
50104	MONTREAL	56	0.003	0.004	0.007	1.22	0.45
50109	MONTREAL	40	0.003	0.005	0.008	1.52	0.59
50307	QUEBEC CITY	53	0.003	0.004	0.007	1.71	0.97
60104	OTTAWA	47	0.003	0.004	0.007	1.32	0.77
60417	TORONTO	41	0.003	0.004	0.007	1.38	1.20
70119	WINNIPEG	40	0.004	0.005	0.009	1.40	0.64
90130	EDMONTON	34	0.003	0.005	0.008	1.63	0.83
90204	CALGARY	49	0.003	0.005	0.008	1.79	1.11
00118	VANCOUVER	38	0.003	0.004	0.007	1.29	0.75
00111	VANCOUVER	68	0.004	0.005	0.009	1.66	1.00
00303	VICTORIA	54	0.004	0.005	0.008	1.30	0.66
60204	WINDSOR	67	0.001	0.001	0.003	1.10	0.93
61901	WALPOLE ISLAND	23	0.001	0.001	0.002	0.90	0.74

**Table A22 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Germanium (Ge)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.000	0.001	0.001	1.02	0.70
50104	MONTREAL	56	0.000	0.001	0.001	0.91	0.71
50109	MONTREAL	40	0.001	0.001	0.002	1.39	0.93
50307	QUEBEC CITY	53	0.000	0.001	0.001	1.49	1.53
60104	OTTAWA	47	0.000	0.001	0.001	0.87	0.67
60417	TORONTO	41	0.001	0.001	0.001	1.22	0.65
70119	WINNIPEG	40	0.000	0.000	0.001	1.10	0.58
90130	EDMONTON	34	0.000	0.001	0.001	1.32	0.64
90204	CALGARY	49	0.001	0.001	0.002	1.48	0.52
00118	VANCOUVER	38	0.000	0.001	0.001	1.63	1.14
00111	VANCOUVER	68	0.001	0.001	0.002	1.44	0.64
00303	VICTORIA	54	0.001	0.001	0.002	1.67	0.96
60204	WINDSOR	67	0.000	0.000	0.000	0.98	0.71
61901	WALPOLE ISLAND	23	0.000	0.000	0.000	0.00	0.00

**Table A23 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Arsenic (As)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.000	0.000	0.001	0.95	1.90
50104	MONTREAL	56	0.000	0.001	0.001	1.28	1.88
50109	MONTREAL	40	0.000	0.002	0.002	5.04	7.65
50307	QUEBEC CITY	53	0.000	0.001	0.001	1.95	2.14
60104	OTTAWA	47	0.000	0.001	0.001	1.24	2.47
60417	TORONTO	41	0.000	0.001	0.001	3.58	6.02
70119	WINNIPEG	40	0.000	0.000	0.000	0.00	0.00
90130	EDMONTON	34	0.000	0.001	0.001	1.48	1.79
90204	CALGARY	49	0.000	0.001	0.001	1.16	2.59
00118	VANCOUVER	38	0.000	0.001	0.001	4.22	3.89
00111	VANCOUVER	68	0.000	0.001	0.001	2.37	2.63
00303	VICTORIA	54	0.000	0.000	0.001	0.20	0.48
60204	WINDSOR	67	0.000	0.001	0.001	2.43	2.54
61901	WALPOLE ISLAND	23	0.000	0.000	0.000	0.00	

**Table A24 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Selenium (Se)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.000	0.001	0.001	1.79	0.87
50104	MONTREAL	56	0.001	0.005	0.006	10.35	12.45
50109	MONTREAL	40	0.001	0.003	0.004	5.32	5.29
50307	QUEBEC CITY	53	0.000	0.001	0.002	2.41	1.70
60104	OTTAWA	47	0.000	0.001	0.001	1.81	0.80
60417	TORONTO	41	0.000	0.002	0.002	4.34	4.80
70119	WINNIPEG	40	0.000	0.001	0.001	1.62	1.06
90130	EDMONTON	34	0.000	0.001	0.001	1.30	0.71
90204	CALGARY	49	0.000	0.001	0.001	1.53	0.99
00118	VANCOUVER	38	0.000	0.001	0.002	2.47	1.16
00111	VANCOUVER	68	0.000	0.001	0.001	1.84	0.92
00303	VICTORIA	54	0.000	0.001	0.002	2.32	1.17
60204	WINDSOR	67	0.000	0.003	0.003	14.75	23.04
61901	WALPOLE ISLAND	23	0.000	0.001	0.002	4.30	2.88

**Table A25 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Bromine (Br)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.004	0.006	0.010	1.95	0.81
50104	MONTREAL	56	0.006	0.036	0.042	5.78	2.00
50109	MONTREAL	40	0.016	0.076	0.091	4.64	1.68
50307	QUEBEC CITY	53	0.008	0.045	0.053	5.78	4.02
60104	OTTAWA	47	0.005	0.022	0.026	4.17	1.80
60417	TORONTO	41	0.006	0.026	0.033	4.12	1.25
70119	WINNIPEG	40	0.003	0.015	0.018	4.69	2.00
90130	EDMONTON	34	0.009	0.034	0.043	3.46	1.00
90204	CALGARY	49	0.009	0.049	0.058	5.69	3.62
00118	VANCOUVER	38	0.021	0.109	0.130	4.91	1.59
00111	VANCOUVER	68	0.014	0.063	0.077	3.99	1.97
00303	VICTORIA	54	0.019	0.078	0.097	3.85	2.52
60204	WINDSOR	67	0.003	0.015	0.018	5.37	3.31
61901	WALPOLE ISLAND	23	0.000	0.003	0.003	8.77	6.72

**Table A26 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Rubidium (Rb)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.001	0.000	0.001	0.45	0.54
50104	MONTREAL	56	0.001	0.000	0.001	0.44	0.69
50109	MONTREAL	40	0.001	0.000	0.001	0.18	0.28
50307	QUEBEC CITY	53	0.001	0.000	0.001	0.24	0.49
60104	OTTAWA	47	0.001	0.000	0.001	0.25	0.41
60417	TORONTO	41	0.001	0.000	0.001	0.22	0.38
70119	WINNIPEG	40	0.001	0.000	0.001	0.06	0.16
90130	EDMONTON	34	0.001	0.000	0.001	0.07	0.22
90204	CALGARY	49	0.001	0.000	0.001	0.12	0.25
00118	VANCOUVER	38	0.000	0.000	0.000	0.58	0.40
00111	VANCOUVER	68	0.000	0.000	0.000	0.18	0.39
00303	VICTORIA	54	0.000	0.000	0.000	0.50	0.68
60204	WINDSOR	67	0.000	0.001	0.001	1.16	1.67
61901	WALPOLE ISLAND	23	0.000	0.000	0.001	0.08	0.16

**Table A27 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Strontium (Sr)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.002	0.001	0.002	0.56	0.29
50104	MONTRÉAL	56	0.005	0.001	0.006	0.38	0.22
50109	MONTRÉAL	40	0.011	0.004	0.015	0.33	0.70
50307	QUEBEC CITY	53	0.006	0.001	0.007	0.28	0.24
60104	OTTAWA	47	0.003	0.001	0.004	0.31	0.30
60417	TORONTO	41	0.003	0.001	0.004	0.36	0.30
70119	WINNIPEG	40	0.005	0.001	0.006	0.33	0.22
90130	EDMONTON	34	0.003	0.001	0.004	0.27	0.14
90204	CALGARY	49	0.003	0.001	0.004	0.36	0.14
00118	VANCOUVER	38	0.002	0.001	0.003	0.55	0.48
00111	VANCOUVER	68	0.002	0.001	0.003	0.57	0.63
00303	VICTORIA	54	0.002	0.001	0.002	0.58	0.55
60204	WINDSOR	67	0.004	0.001	0.005	0.13	0.15
61901	WALPOLE ISLAND	23	0.002	0.000	0.002	0.17	0.23

**Table A28 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Yttrium (Y)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.000	0.000	0.001	0.92	0.73
50104	MONTREAL	56	0.000	0.000	0.001	0.84	0.91
50109	MONTREAL	40	0.001	0.000	0.001	0.61	0.63
50307	QUEBEC CITY	53	0.000	0.000	0.001	0.86	0.78
60104	OTTAWA	47	0.000	0.000	0.001	1.08	0.73
60417	TORONTO	41	0.000	0.000	0.001	0.87	0.57
70119	WINNIPEG	40	0.000	0.000	0.001	1.06	0.76
90130	EDMONTON	34	0.001	0.000	0.001	0.72	0.53
90204	CALGARY	49	0.001	0.000	0.001	0.97	0.66
00118	VANCOUVER	38	0.000	0.000	0.001	0.87	0.98
00111	VANCOUVER	68	0.001	0.000	0.001	0.88	0.80
00303	VICTORIA	54	0.000	0.000	0.001	1.36	0.95
60204	WINDSOR	67	0.000	0.000	0.000	0.36	0.50
61901	WALPOLE ISLAND	23	0.000	0.000	0.000	0.00	0.00

**Table A29 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Zirconium (Zr)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.001	0.001	0.002	0.98	0.70
50104	MONTREAL	56	0.002	0.001	0.002	0.53	0.35
50109	MONTREAL	40	0.003	0.001	0.004	0.58	1.19
50307	QUEBEC CITY	53	0.001	0.001	0.002	0.74	0.54
60104	OTTAWA	47	0.001	0.001	0.002	1.21	2.52
60417	TORONTO	41	0.002	0.001	0.003	0.53	0.56
70119	WINNIPEG	40	0.002	0.001	0.002	0.73	0.33
90130	EDMONTON	34	0.002	0.001	0.003	0.39	0.26
90204	CALGARY	49	0.002	0.001	0.003	0.44	0.26
00118	VANCOUVER	38	0.001	0.001	0.002	0.51	0.43
00111	VANCOUVER	68	0.001	0.001	0.002	0.62	0.42
00303	VICTORIA	54	0.001	0.001	0.001	0.78	0.43
60204	WINDSOR	67	0.001	0.000	0.001	0.01	0.06
61901	WALPOLE ISLAND	23	0.001	0.000	0.001	0.08	0.18

**Table A30 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Niobium (Nb)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.001	0.001	0.001	1.09	0.59
50104	MONTREAL	56	0.001	0.000	0.001	0.94	0.60
50109	MONTREAL	40	0.001	0.000	0.001	0.67	0.60
50307	QUEBEC CITY	53	0.000	0.000	0.001	0.95	0.61
60104	OTTAWA	47	0.001	0.001	0.001	1.17	0.68
60417	TORONTO	41	0.000	0.000	0.001	0.65	0.53
70119	WINNIPEG	40	0.001	0.001	0.001	0.97	0.53
90130	EDMONTON	34	0.001	0.001	0.001	0.81	0.59
90204	CALGARY	49	0.000	0.000	0.001	0.79	0.59
00118	VANCOUVER	38	0.000	0.000	0.001	1.02	0.59
00111	VANCOUVER	68	0.001	0.001	0.001	1.07	0.63
00303	VICTORIA	54	0.000	0.000	0.001	0.54	0.61
60204	WINDSOR	67	0.000	0.000	0.000	0.00	0.00
61901	WALPOLE ISLAND	23	0.000	0.000	0.000	0.00	0.00

**Table A31 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Molybdenum (Mo)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.002	0.002	0.004	1.33	0.52
50104	MONTREAL	56	0.001	0.002	0.003	1.47	0.65
50109	MONTREAL	40	0.002	0.002	0.004	1.26	0.42
50307	QUEBEC CITY	53	0.001	0.001	0.003	1.24	0.68
60104	OTTAWA	47	0.001	0.001	0.003	1.14	0.51
60417	TORONTO	41	0.001	0.001	0.003	1.05	0.54
70119	WINNIPEG	40	0.002	0.002	0.003	1.23	0.62
90130	EDMONTON	34	0.001	0.001	0.003	1.11	0.33
90204	CALGARY	49	0.001	0.002	0.003	1.14	0.41
00118	VANCOUVER	38	0.001	0.001	0.003	0.87	0.50
00111	VANCOUVER	68	0.002	0.002	0.004	0.98	0.51
00303	VICTORIA	54	0.001	0.001	0.003	0.95	0.49
60204	WINDSOR	67	0.000	0.001	0.001	1.17	1.04
61901	WALPOLE ISLAND	23	0.000	0.000	0.001	0.97	0.94

**Table A32 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Palladium (Pd)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.000	0.000	0.000	0.00	0.00
50104	MONTREAL	56	0.000	0.000	0.000	0.00	0.00
50109	MONTREAL	40	0.000	0.000	0.000	0.00	0.00
50307	QUEBEC CITY	53	0.000	0.000	0.000	0.00	0.00
60104	OTTAWA	47	0.000	0.000	0.000	0.00	0.00
60417	TORONTO	41	0.000	0.000	0.000	0.00	0.00
70119	WINNIPEG	40	0.000	0.000	0.000	0.00	0.00
90130	EDMONTON	34	0.000	0.000	0.000	0.00	0.00
90204	CALGARY	49	0.000	0.000	0.001	0.16	0.39
00118	VANCOUVER	38	0.000	0.000	0.001	0.21	0.48
00111	VANCOUVER	68	0.000	0.000	0.000	0.00	0.00
00303	VICTORIA	54	0.000	0.000	0.000	0.00	0.00
60204	WINDSOR	67	0.002	0.000	0.002	0.00	0.00
61901	WALPOLE ISLAND	23	0.000	0.000	0.000	0.00	0.00

**Table A33 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Silver (Ag)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.000	0.001	0.001	0.19	0.45
50104	MONTREAL	56	0.001	0.000	0.001	0.15	0.44
50109	MONTREAL	40	0.001	0.002	0.002	0.16	0.44
50307	QUEBEC CITY	53	0.000	0.001	0.001	0.58	0.76
60104	OTTAWA	47	0.000	0.000	0.001	0.16	0.46
60417	TORONTO	41	0.001	0.000	0.001	0.14	0.40
70119	WINNIPEG	40	0.000	0.000	0.001	0.00	0.00
90130	EDMONTON	34	0.000	0.001	0.001	0.00	0.00
90204	CALGARY	49	0.000	0.001	0.001	0.52	0.72
00118	VANCOUVER	38	0.000	0.001	0.001	0.00	0.00
00111	VANCOUVER	68	0.000	0.000	0.001	0.00	0.00
00303	VICTORIA	54	0.001	0.000	0.001	0.20	0.42
60204	WINDSOR	67	0.000	0.000	0.001	0.45	0.86
61901	WALPOLE ISLAND	23	0.000	0.000	0.000	0.00	0.00

**Table A34 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Cadmium(Cd)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.001	0.001	0.002	1.02	0.69
50104	MONTREAL	56	0.001	0.002	0.003	0.93	0.91
50109	MONTREAL	40	0.001	0.001	0.002	0.76	1.35
50307	QUEBEC CITY	53	0.001	0.001	0.002	0.78	0.74
60104	OTTAWA	47	0.000	0.001	0.001	0.47	0.54
60417	TORONTO	41	0.000	0.001	0.001		
70119	WINNIPEG	40	0.000	0.000	0.000		
90130	EDMONTON	34	0.000	0.000	0.000		
90204	CALGARY	49	0.001	0.001	0.002	0.70	0.60
00118	VANCOUVER	38	0.002	0.002	0.004	0.95	0.86
00111	VANCOUVER	68	0.001	0.000	0.001	0.04	0.16
00303	VICTORIA	54	0.001	0.001	0.002	1.03	0.63
60204	WINDSOR	67	0.001	0.002	0.003	2.14	2.63
61901	WALPOLE ISLAND	23	0.000	0.000	0.000		

**Table A35 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Indium (In)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.001	0.001	0.001	0.24	0.41
50104	MONTRÉAL	56	0.001	0.001	0.001	0.08	0.23
50109	MONTRÉAL	40	0.000	0.000	0.001	0.00	0.00
50307	QUEBEC CITY	53	0.001	0.001	0.001	0.14	0.41
60104	OTTAWA	47	0.000	0.000	0.001	0.24	0.53
60417	TORONTO	41	0.000	0.000	0.001	0.00	0.00
70119	WINNIPEG	40	0.000	0.001	0.001	0.00	0.00
90130	EDMONTON	34	0.001	0.001	0.001	0.00	0.00
90204	CALGARY	49	0.000	0.001	0.001	0.00	0.00
00118	VANCOUVER	38	0.000	0.000	0.001	0.00	0.00
00111	VANCOUVER	68	0.000	0.000	0.001	0.18	0.44
00303	VICTORIA	54	0.000	0.000	0.001	0.20	0.54
60204	WINDSOR	67	0.001	0.001	0.001	0.19	0.61
61901	WALPOLE ISLAND	23	0.001	0.001	0.001	0.72	0.28

**Table A36 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Tin (Sn)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.008	0.011	0.019	1.35	0.49
50104	MONTREAL	56	0.007	0.011	0.018	1.73	1.63
50109	MONTREAL	40	0.007	0.016	0.023	2.10	0.91
50307	QUEBEC CITY	53	0.008	0.009	0.016	1.07	0.50
60104	OTTAWA	47	0.007	0.008	0.015	1.14	0.55
60417	TORONTO	41	0.006	0.010	0.017	1.51	0.62
70119	WINNIPEG	40	0.007	0.009	0.017	1.22	0.49
90130	EDMONTON	34	0.008	0.010	0.017	1.22	0.50
90204	CALGARY	49	0.008	0.009	0.017	1.13	0.46
00118	VANCOUVER	38	0.007	0.009	0.015	1.30	0.81
00111	VANCOUVER	68	0.007	0.008	0.014	1.14	0.48
00303	VICTORIA	54	0.007	0.009	0.016	1.35	0.58
60204	WINDSOR	67	0.002	0.003	0.005	1.01	1.22
61901	WALPOLE ISLAND	23	0.001	0.003	0.003	0.68	0.42

**Table A37 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Antimony (Sb)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.003	0.003	0.005	0.53	0.69
50104	MONTREAL	56	0.002	0.002	0.004	0.73	0.83
50109	MONTREAL	40	0.003	0.004	0.007	0.82	0.88
50307	QUEBEC CITY	53	0.002	0.002	0.004	0.55	0.73
60104	OTTAWA	47	0.002	0.003	0.004	0.65	0.81
60417	TORONTO	41	0.001	0.003	0.004	0.88	0.89
70119	WINNIPEG	40	0.002	0.004	0.006	0.73	1.15
90130	EDMONTON	34	0.002	0.005	0.007	0.76	0.81
90204	CALGARY	49	0.002	0.003	0.005	0.92	0.89
00118	VANCOUVER	38	0.002	0.004	0.006	0.84	1.52
00111	VANCOUVER	68	0.003	0.004	0.006	0.77	0.79
00303	VICTORIA	54	0.002	0.003	0.005	0.74	0.73
60204	WINDSOR	67	0.004	0.005	0.009	1.13	0.83
61901	WALPOLE ISLAND	23	0.003	0.003	0.006	1.37	1.43

**Table A38 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Tellurium (Te)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.002	0.003	0.006	1.21	1.30
50104	MONTREAL	56	0.001	0.003	0.004	0.67	1.00
50109	MONTREAL	40	0.003	0.002	0.005	0.32	0.63
50307	QUEBEC CITY	53	0.003	0.002	0.005	0.61	0.63
60104	OTTAWA	47	0.002	0.003	0.004	0.50	0.89
60417	TORONTO	41	0.002	0.003	0.005	1.21	1.10
70119	WINNIPEG	40	0.001	0.003	0.004	0.94	0.57
90130	EDMONTON	34	0.003	0.003	0.006	0.78	0.66
90204	CALGARY	49	0.004	0.003	0.007	0.74	0.80
00118	VANCOUVER	38	0.002	0.003	0.004	0.86	0.97
00111	VANCOUVER	68	0.002	0.002	0.004	0.67	0.66
00303	VICTORIA	54	0.002	0.004	0.007	1.26	1.50
60204	WINDSOR	67	0.001	0.001	0.003	0.52	1.04
61901	WALPOLE ISLAND	23	0.002	0.002	0.004	0.58	0.40

**Table A39 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Iodine (I)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.001	0.003	0.005	0.87	0.64
50104	MONTREAL	56	0.002	0.001	0.003	0.41	0.61
50109	MONTREAL	40	0.002	0.001	0.002	0.19	0.61
50307	QUEBEC CITY	53	0.001	0.002	0.003	0.29	0.54
60104	OTTAWA	47	0.001	0.003	0.004	0.42	0.73
60417	TORONTO	41	0.002	0.002	0.003	0.75	1.20
70119	WINNIPEG	40	0.001	0.002	0.003	0.77	1.11
90130	EDMONTON	34	0.002	0.003	0.005	0.32	0.60
90204	CALGARY	49	0.001	0.004	0.005	0.65	0.73
00118	VANCOUVER	38	0.001	0.001	0.002	0.35	0.61
00111	VANCOUVER	68	0.001	0.003	0.004	0.35	0.54
00303	VICTORIA	54	0.002	0.002	0.005	0.41	0.61
60204	WINDSOR	67	0.001	0.001	0.001	0.73	1.03
61901	WALPOLE ISLAND	23	0.000	0.000	0.000	0.00	

**Table A40 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Cesium (Cs)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.001	0.001	0.001	0.00	0.00
50104	MONTREAL	56	0.001	0.001	0.002	0.00	0.00
50109	MONTREAL	40	0.001	0.001	0.002	0.68	0.78
50307	QUEBEC CITY	53	0.002	0.001	0.003	0.13	0.38
60104	OTTAWA	47	0.000	0.001	0.001	0.97	
60417	TORONTO	41	0.001	0.001	0.002	0.00	0.00
70119	WINNIPEG	40	0.000	0.001	0.002	0.81	1.14
90130	EDMONTON	34	0.000	0.001	0.002	1.13	
90204	CALGARY	49	0.001	0.000	0.001	0.00	0.00
00118	VANCOUVER	38	0.001	0.002	0.002	0.47	0.66
00111	VANCOUVER	68	0.001	0.001	0.001	0.30	0.61
00303	VICTORIA	54	0.000	0.001	0.001	0.00	
60204	WINDSOR	67	0.000	0.000	0.000		
61901	WALPOLE ISLAND	23	0.000	0.000	0.000		

**Table A41 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Barium (Ba)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.009	0.004	0.013	0.30	0.55
50104	MONTRÉAL	56	0.010	0.007	0.017	0.49	0.57
50109	MONTRÉAL	40	0.026	0.010	0.036	0.38	0.38
50307	QUEBEC CITY	53	0.008	0.004	0.012	0.25	0.48
60104	OTTAWA	47	0.008	0.005	0.013	0.47	0.75
60417	TORONTO	41	0.010	0.004	0.014	0.33	0.55
70119	WINNIPEG	40	0.010	0.007	0.017	0.60	0.53
90130	EDMONTON	34	0.017	0.006	0.023	0.34	0.49
90204	CALGARY	49	0.013	0.005	0.017	0.36	0.52
00118	VANCOUVER	38	0.009	0.004	0.013	0.23	0.45
00111	VANCOUVER	68	0.010	0.005	0.015	0.25	0.49
00303	VICTORIA	54	0.008	0.004	0.013	0.24	0.45
60204	WINDSOR	67	0.008	0.001	0.009	0.06	0.22
61901	WALPOLE ISLAND	23	0.001	0.002	0.002	0.00	0.00

**Table A42 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Lanthanum (La)**

Station Number	City	No. of Samples	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.006	0.010	0.016	0.34
50104	MONTREAL	56	0.006	0.007	0.013	0.67
50109	MONTREAL	40	0.007	0.009	0.016	0.32
50307	QUEBEC CITY	53	0.006	0.007	0.013	0.44
60104	OTTAWA	47	0.007	0.007	0.013	0.47
60417	TORONTO	41	0.004	0.010	0.013	0.50
70119	WINNIPEG	40	0.007	0.009	0.016	0.52
90130	EDMONTON	34	0.008	0.006	0.013	0.23
90204	CALGARY	49	0.004	0.007	0.011	0.40
00118	VANCOUVER	38	0.005	0.008	0.013	0.47
00111	VANCOUVER	68	0.007	0.008	0.015	0.42
00303	VICTORIA	54	0.005	0.005	0.010	0.28
60204	WINDSOR	67	0.001	0.002	0.003	0.60
61901	WALPOLE ISLAND	23	0.001	0.002	0.002	0.00

**Table A43 : Mean Concentration ( $\mu\text{g}/\text{m}^3$ ) of Lead (Pb)**

Station Number	City	No. of Samples	Coarse	Fine	Total	F/C Ratio	Std. Dev. of Ratio
30101	HALIFAX	50	0.008	0.034	0.042	4.40	1.65
50104	MONTREAL	56	0.030	0.129	0.159	4.64	1.81
50109	MONTREAL	40	0.070	0.220	0.290	3.26	0.99
50307	QUEBEC CITY	53	0.033	0.149	0.181	4.96	2.86
60104	OTTAWA	47	0.017	0.082	0.099	4.63	1.51
60417	TORONTO	41	0.027	0.111	0.138	4.09	1.16
70119	WINNIPEG	40	0.016	0.051	0.067	3.31	1.22
90130	EDMONTON	34	0.040	0.123	0.163	3.02	0.87
90204	CALGARY	49	0.038	0.167	0.205	4.53	1.23
00118	VANCOUVER	38	0.069	0.329	0.399	4.91	1.27
00111	VANCOUVER	68	0.048	0.204	0.252	4.33	1.17
00303	VICTORIA	54	0.058	0.250	0.308	4.14	1.87
60204	WINDSOR	67	0.015	0.053	0.068	4.06	1.87
61901	WALPOLE ISLAND	23	0.004	0.013	0.017	5.25	3.70

## **APPENDIX B**

### **FREQUENCY DISTRIBUTION of CONCENTRATIONS of ELEMENTS MEASURED by EDXRF**

**Table B1 : Frequency Distribution of Mass Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution												Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.			
30101	HALIFAX	50	11	16	19	24	26	30	33	41	56	62	62	26	11	
50104	MONTREAL	54	9	13	25	31	34	35	46	50	60	66	66	32	14	
50109	MONTREAL	40	16	28	38	44	47	54	60	81	95	97	97	48	19	
50307	QUEBEC CITY	53	6	10	14	19	27	30	36	43	57	61	61	24	14	
60104	OTTAWA	47	6	10	16	20	24	28	35	41	50	62	62	24	13	
60417	TORONTO	39	9	12	18	24	25	31	37	47	58	83	83	27	15	
70119	WINNIPEG	40	7	15	20	25	28	34	38	56	77	95	95	30	18	
90130	EDMONTON	34	10	19	25	30	35	37	47	54	60	83	83	33	15	
90204	CALGARY	49	9	15	21	29	32	35	37	44	52	83	83	29	13	
00118	VANCOUVER	38	14	16	21	26	28	32	40	57	61	69	69	30	13	
00111	VANCOUVER	68	9	16	24	34	36	38	41	45	47	64	64	32	11	
00303	VICTORIA	54	4	9	14	20	22	24	29	33	46	59	59	21	11	
60204	WINDSOR	67	10	14	24	31	35	39	51	64	92	102	102	37	22	
61901	WALPOLE ISLAND	23	6	12	17	23	24	26	30	59	70	74	74	27	18	

**Table B2 : Frequency Distribution of Sulphate (SO<sub>4</sub>) Concentrations (μg/m<sup>3</sup>)**

Station Number	City	No. of Samples	Frequency Distribution											Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.		
30101	HALIFAX	50	0.9	2.1	3.3	4.5	5.1	5.7	7.3	8.1	8.8	10.8	10.8	4.8	2.3
50104	MONTREAL	56	0.3	1.7	2.3	3.6	4.7	5.1	7.1	9.3	11.4	12.3	12.3	4.5	3.0
50109	MONTREAL	39	0.5	1.4	2.7	4.0	4.8	5.9	7.7	10.2	12.5	17.1	17.1	4.9	3.6
50307	QUEBEC CITY	51	0.4	0.8	1.4	2.0	2.5	3.3	4.8	5.6	6.8	10.0	10.0	2.8	2.1
60104	OTTAWA	46	0.3	0.9	1.5	3.2	3.4	4.7	5.4	9.5	9.9	16.3	16.3	3.9	3.5
60417	TORONTO	39	0.9	1.4	2.1	3.0	3.8	4.7	6.0	8.6	13.4	15.9	15.9	4.1	3.3
70119	WINNIPEG	40	0.3	0.5	1.1	1.4	1.6	2.1	2.6	3.9	4.3	5.0	5.0	1.7	1.2
90130	EDMONTON	34	0.3	0.6	0.9	1.1	1.4	1.5	2.1	2.5	4.7	5.7	5.7	1.5	1.2
90204	CALGARY	49	0.3	0.6	0.9	1.4	1.6	1.8	1.9	2.7	3.7	9.8	9.8	1.6	1.4
00118	VANCOUVER	37	0.7	1.2	1.6	2.0	2.3	2.4	2.9	3.9	4.1	6.0	6.0	2.3	1.1
00111	VANCOUVER	65	0.0	0.8	1.6	1.9	2.3	2.5	3.1	3.3	4.2	4.6	4.6	2.1	1.0
00303	VICTORIA	54	0.2	0.9	1.4	1.8	2.0	2.2	2.5	3.1	4.3	5.7	5.7	2.0	1.0
60204	WINDSOR	67	0.7	1.6	3.0	4.4	5.9	6.9	9.2	15.4	18.6	29.6	29.6	6.7	6.4
61901	WALPOLE ISLAND	23	0.1	0.7	2.0	3.3	3.6	4.4	4.5	12.2	12.5	24.9	24.9	4.7	5.5

**Table B3 : Frequency Distribution of Nitrate (NO<sub>3</sub>) Concentrations (μg/m<sup>3</sup>)**

Station Number	City	No. of Samples	Frequency Distribution											Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.		
30101	HALIFAX	50	0.2	0.4	0.5	0.6	0.7	0.8	1.1	1.3	1.6	2.3	2.3	0.7	0.4
50104	MONTREAL	56	0.2	0.5	0.7	1.1	1.2	1.7	3.0	4.8	6.6	10.7	10.7	1.9	2.1
50109	MONTREAL	39	0.3	0.5	0.6	0.9	1.0	1.2	1.8	2.6	5.9	8.9	8.9	1.4	1.6
50307	QUEBEC CITY	51	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.9	3.6	4.5	4.5	1.0	0.9
60104	OTTAWA	46	0.2	0.4	0.5	0.9	1.0	1.1	1.3	3.9	4.2	5.3	5.3	1.3	1.3
60417	TORONTO	39	0.1	0.4	0.6	0.9	1.1	1.5	2.2	4.0	8.6	8.9	8.9	1.6	2.0
70119	WINNIPEG	40	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.3	2.5	2.9	2.9	0.8	0.5
90130	EDMONTON	34	0.4	0.4	0.5	0.6	0.7	0.7	1.0	1.3	1.8	3.0	3.0	0.8	0.5
90204	CALGARY	49	0.2	0.5	0.7	0.8	0.8	1.0	1.2	1.7	2.4	7.5	7.5	1.1	1.3
00118	VANCOUVER	37	0.6	0.6	0.9	1.1	1.4	1.5	1.6	1.8	2.5	2.6	2.6	1.2	0.5
00111	VANCOUVER	65	0.0	0.6	0.7	0.9	1.0	1.1	1.2	1.5	1.6	1.8	1.8	0.9	0.4
00303	VICTORIA	54	0.2	0.4	0.7	0.8	0.9	1.0	1.3	1.7	1.9	2.8	2.8	0.9	0.5
60204	WINDSOR	67	0.0	0.2	0.6	0.9	1.0	1.2	1.6	2.6	4.2	9.4	9.4	1.2	1.4
61901	WALPOLE ISLAND	23	0.1	0.1	0.2	0.6	0.7	0.9	1.0	1.0	1.1	1.5	1.5	0.6	0.4

**Table B4 : Frequency Distribution of Aluminum (Al) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution Min.	10	30	50	60	70	80	90	95	99	Max.	Mean	Std.Dev.
30101	HALIFAX	50	0.260	0.358	0.728	0.992	1.276	1.635	2.392	2.696	4.960	6.520	6.520	1.465	1.350
50104	MONTREAL	56	0.206	0.308	0.380	0.509	0.631	0.752	0.870	1.182	1.363	2.017	0.630	0.358	
50109	MONTREAL	40	ND	0.648	0.912	1.318	1.365	1.620	2.090	2.873	3.980	10.200	10.200	1.614	1.613
50307	QUEBEC CITY	53	0.044	0.061	0.119	0.196	0.239	0.273	0.417	0.586	0.724	1.200	1.200	0.261	0.228
60104	OTTAWA	47	0.031	0.054	0.129	0.221	0.273	0.380	0.508	1.216	1.365	1.719	1.719	0.379	0.422
60417	TORONTO	41	0.033	0.081	0.149	0.226	0.270	0.311	0.342	0.454	0.578	1.841	1.841	0.300	0.344
70119	WINNIPEG	40	0.083	0.214	0.303	0.461	0.639	0.754	0.928	1.472	2.145	4.860	4.860	0.721	0.828
90130	EDMONTON	34	0.368	0.526	0.814	1.128	1.364	1.805	2.981	3.120	6.600	7.820	7.820	1.750	1.654
90204	CALGARY	49	0.048	0.133	0.280	0.391	0.491	0.556	0.671	0.846	0.918	0.949	0.949	0.443	0.246
00118	VANCOUVER	38	0.154	0.221	0.314	0.454	0.542	0.667	0.771	1.012	1.569	1.708	1.708	0.555	0.363
00111	VANCOUVER	68	0.061	0.356	0.594	0.956	1.295	1.509	1.827	2.475	3.669	5.050	5.050	1.286	1.082
00303	VICTORIA	54	0.013	0.063	0.100	0.140	0.191	0.226	0.292	0.350	0.540	0.998	0.998	0.197	0.171
60204	WINDSOR	67	ND	0.079	0.269	0.559	0.938	1.239	1.786	2.380	3.602	5.981	5.981	1.027	1.189
61901	WALPOLE ISLAND	23	ND	0.017	0.049	0.146	0.167	0.362	0.469	0.707	0.729	1.054	1.054	0.259	0.281

**Table B5 : Frequency Distribution of Silicon (Si) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution												Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.			
30101	HALIFAX	50	0.097	0.208	0.349	0.510	0.589	0.744	0.928	1.312	1.322	1.818	1.818	0.606	0.412	
50104	MONTREAL	56	0.102	0.284	0.520	0.706	0.733	0.903	1.224	1.717	2.287	3.410	3.410	0.864	0.623	
50109	MONTREAL	40	ND	0.467	0.790	1.185	1.343	1.719	1.984	2.266	2.496	3.075	3.075	1.253	0.709	
50307	QUEBEC CITY	53	0.019	0.122	0.257	0.433	0.533	0.723	0.848	1.236	1.630	3.742	3.742	0.603	0.617	
60104	OTTAWA	47	0.020	0.088	0.277	0.343	0.598	0.675	0.793	1.120	1.418	4.006	4.006	0.581	0.629	
60417	TORONTO	41	ND	0.167	0.405	0.536	0.657	0.750	0.828	1.109	1.619	5.572	5.572	0.768	0.954	
70119	WINNIPEG	40	0.204	0.373	0.753	1.174	1.426	1.574	1.769	2.647	3.662	3.800	3.800	1.286	0.854	
90130	EDMONTON	34	0.287	0.616	1.495	2.153	2.288	2.624	3.614	4.080	4.519	4.930	4.930	2.212	1.245	
90204	CALGARY	49	0.115	0.554	1.082	1.681	1.872	2.111	2.521	3.084	3.211	3.466	3.466	1.657	0.891	
00118	VANCOUVER	38	0.070	0.148	0.257	0.368	0.398	0.602	0.823	0.894	1.404	2.830	2.830	0.526	0.490	
00111	VANCOUVER	68	0.035	0.134	0.295	0.567	0.632	0.840	0.928	1.195	1.332	1.499	1.499	0.596	0.388	
00303	VICTORIA	54	0.033	0.088	0.183	0.272	0.347	0.442	0.490	0.646	0.814	1.146	1.146	0.339	0.250	
60204	WINDSOR	67	0.064	0.219	0.406	0.539	0.702	0.825	0.985	1.252	1.338	3.336	3.336	0.669	0.495	
61901	WALPOLE ISLAND	23	ND	0.104	0.201	0.380	0.444	0.672	1.337	1.600	2.171	2.817	2.817	0.658	0.743	

**Table B6 : Frequency Distribution of Phosphorus (P) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution							Mean	Std.Dev.
			Min.	10	30	50	60	70	80		
30101	HALIFAX	50	0.007	0.022	0.028	0.038	0.042	0.052	0.061	0.083	0.087
50104	MONTREAL	56	0.004	0.015	0.035	0.066	0.081	0.092	0.109	0.198	0.402
50109	MONTREAL	40	ND	0.027	0.049	0.066	0.081	0.098	0.150	0.239	0.327
50307	QUEBEC CITY	53	0.001	0.005	0.013	0.022	0.030	0.043	0.057	0.079	0.123
60104	OTTAWA	47	0.005	0.008	0.022	0.032	0.044	0.047	0.070	0.100	0.113
60417	TORONTO	41	ND	0.011	0.024	0.041	0.042	0.051	0.072	0.081	0.101
70119	WINNIPEG	40	0.004	0.010	0.018	0.030	0.034	0.036	0.046	0.057	0.076
90130	EDMONTON	34	ND	0.009	0.019	0.033	0.034	0.036	0.041	0.044	0.046
90204	CALGARY	49	0.002	0.010	0.024	0.040	0.049	0.054	0.078	0.116	0.199
00118	VANCOUVER	38	ND	0.016	0.024	0.034	0.037	0.038	0.054	0.078	0.091
00111	VANCOUVER	68	0.003	0.011	0.022	0.032	0.037	0.043	0.049	0.058	0.069
00303	VICTORIA	54	ND	0.005	0.014	0.021	0.025	0.030	0.039	0.047	0.053
60204	WINDSOR	67	ND	0.008	0.020	0.039	0.045	0.056	0.066	0.116	0.137
61901	WALPOLE ISLAND	23	ND	0.003	0.015	0.023	0.029	0.037	0.051	0.063	0.074

**Table B7 : Frequency Distribution of Sulphur (S) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution												Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.			
30101	HALIFAX	50	0.439	1.113	1.460	2.040	2.437	2.979	3.473	3.865	4.109	4.572	4.572	2.282	1.069	
50104	MONTREAL	56	0.218	0.564	1.087	1.677	2.287	2.680	2.867	3.507	4.566	5.711	5.711	2.006	1.236	
50109	MONTREAL	40	ND	0.891	1.261	1.831	2.127	2.390	3.352	4.775	5.079	5.707	5.707	2.128	1.419	
50307	QUEBEC CITY	53	0.220	0.437	0.743	0.985	1.181	1.633	2.054	2.514	3.315	4.860	4.860	1.345	0.945	
60104	OTTAWA	47	0.170	0.459	0.864	1.317	1.853	2.039	2.606	4.195	4.611	5.790	5.790	1.741	1.368	
60417	TORONTO	41	0.431	0.688	0.986	1.482	1.861	2.107	2.767	3.467	4.831	5.988	5.988	1.899	1.312	
70119	WINNIPEG	40	0.191	0.301	0.504	0.668	0.853	1.090	1.310	1.723	1.860	2.289	2.289	0.836	0.520	
90130	EDMONTON	34	0.167	0.329	0.491	0.631	0.696	0.728	0.867	1.412	1.781	2.470	2.470	0.735	0.492	
90204	CALGARY	49	0.095	0.334	0.476	0.699	0.800	0.851	0.948	1.261	1.752	2.881	2.881	0.760	0.479	
00118	VANCOUVER	38	0.345	0.653	0.763	1.023	1.179	1.338	1.497	1.782	2.002	2.519	2.519	1.134	0.479	
00111	VANCOUVER	68	0.339	0.558	0.746	1.159	1.310	1.448	1.610	1.716	1.941	2.602	2.602	1.151	0.504	
00303	VICTORIA	54	0.088	0.427	0.631	0.834	0.989	1.019	1.228	1.473	1.665	2.142	2.142	0.889	0.409	
60204	WINDSOR	67	0.291	0.641	1.432	2.060	2.443	2.947	4.020	5.208	6.472	9.710	9.710	2.627	2.015	
61901	WALPOLE ISLAND	23	ND	0.323	1.048	1.329	1.675	1.919	2.279	4.920	5.228	9.175	9.175	1.991	2.091	

**Table B8 : Frequency Distribution of Chlorine (Cl) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution												Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.			
30101	HALIFAX	50	0.076	0.161	0.321	0.513	0.594	0.757	1.015	1.503	1.629	2.857	2.857	0.666	0.565	
50104	MONTREAL	56	ND	0.060	0.099	0.173	0.258	0.413	1.020	1.532	2.951	3.798	3.798	0.554	0.833	
50109	MONTREAL	40	ND	0.128	0.179	0.300	0.364	0.445	1.457	3.463	5.596	9.380	9.380	0.986	1.800	
50307	QUEBEC CITY	53	0.003	0.049	0.120	0.223	0.304	0.491	0.741	1.101	1.824	4.811	4.811	0.484	0.758	
60104	OTTAWA	47	ND	0.030	0.057	0.073	0.091	0.252	0.346	0.533	1.847	3.619	3.619	0.301	0.636	
60417	TORONTO	41	0.005	0.051	0.112	0.132	0.158	0.178	0.471	0.784	1.350	1.530	1.530	0.299	0.401	
70119	WINNIPEG	40	ND	0.019	0.046	0.081	0.101	0.153	0.251	0.634	1.036	1.096	1.096	0.174	0.259	
90130	EDMONTON	34	0.015	0.041	0.077	0.117	0.170	0.213	0.338	0.705	1.351	1.898	1.898	0.289	0.427	
90204	CALGARY	49	0.009	0.035	0.072	0.116	0.218	0.541	1.057	2.062	2.910	4.798	4.798	0.606	0.987	
00118	VANCOUVER	38	0.089	0.147	0.249	0.459	0.521	0.687	1.033	1.437	3.090	3.290	3.290	0.697	0.758	
00111	VANCOUVER	68	0.043	0.122	0.205	0.290	0.365	0.444	0.521	0.641	0.765	1.456	1.456	0.363	0.258	
00303	VICTORIA	54	ND	0.160	0.332	0.583	0.715	0.904	1.269	1.476	1.523	1.874	1.874	0.706	0.500	
60204	WINDSOR	67	ND	0.009	0.071	0.195	0.258	0.301	0.458	0.962	1.343	1.775	1.775	0.330	0.428	
61901	WALPOLE ISLAND	23	ND	0.008	0.017	0.025	0.030	0.040	0.047	0.054	0.068	0.249	0.249	0.037	0.049	

**Table B9 : Frequency Distribution of Potassium (K) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution								Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90		
30101	HALIFAX	50	0.028	0.041	0.068	0.091	0.112	0.132	0.172	0.205	0.358	0.111
50104	MONTREAL	56	0.025	0.097	0.141	0.189	0.214	0.238	0.334	0.382	0.586	0.197
50109	MONTREAL	40	ND	0.156	0.211	0.284	0.344	0.364	0.410	0.433	0.522	0.734
50307	QUEBEC CITY	53	0.026	0.063	0.086	0.135	0.157	0.193	0.235	0.269	0.326	0.806
60104	OTTAWA	47	0.019	0.065	0.093	0.129	0.136	0.155	0.183	0.259	0.291	0.669
60417	TORONTO	41	0.024	0.066	0.093	0.131	0.146	0.160	0.176	0.217	0.291	0.682
70119	WINNIPEG	40	0.014	0.061	0.104	0.167	0.190	0.214	0.240	0.302	0.424	0.539
90130	EDMONTON	34	0.039	0.071	0.142	0.189	0.202	0.228	0.270	0.348	0.373	0.493
90204	CALGARY	49	0.039	0.068	0.121	0.175	0.194	0.221	0.240	0.256	0.303	0.570
00118	VANCOUVER	38	0.091	0.105	0.138	0.156	0.175	0.200	0.231	0.352	0.468	0.478
00111	VANCOUVER	68	0.045	0.063	0.095	0.130	0.142	0.154	0.170	0.198	0.225	0.240
00303	VICTORIA	54	0.020	0.044	0.062	0.091	0.116	0.126	0.144	0.209	0.243	0.262
60204	WINDSOR	67	0.037	0.077	0.142	0.195	0.229	0.283	0.334	0.445	0.742	0.910
61901	WALPOLE ISLAND	23	ND	0.020	0.078	0.119	0.149	0.197	0.245	0.263	0.367	0.645

**Table B10 : Frequency Distribution of Calcium (Ca) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution												Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.			
30101	HALIFAX	50	0.019	0.044	0.079	0.110	0.136	0.151	0.193	0.271	0.367	0.519	0.519	0.136	0.104	
50104	MONTREAL	56	0.164	0.342	0.616	1.017	1.224	1.482	1.550	1.884	2.809	4.583	4.583	1.135	0.794	
50109	MONTREAL	40	ND	0.554	1.411	1.619	1.918	2.145	2.386	3.088	3.738	4.113	4.113	1.707	0.941	
50307	QUEBEC CITY	53	0.035	0.118	0.277	0.569	0.693	0.853	1.133	1.630	2.577	4.118	4.118	0.772	0.787	
60104	OTTAWA	47	0.028	0.152	0.376	0.672	0.854	0.904	1.217	1.505	1.671	2.741	2.741	0.755	0.587	
60417	TORONTO	41	0.040	0.224	0.536	0.863	0.953	1.201	1.490	1.645	2.280	3.409	3.409	0.962	0.702	
70119	WINNIPEG	40	0.017	0.407	0.687	1.292	1.632	2.099	2.483	3.338	5.730	7.577	7.577	1.659	1.566	
90130	EDMONTON	34	0.111	0.201	0.411	0.540	0.650	0.738	0.923	1.124	1.348	1.673	1.673	0.631	0.358	
90204	CALGARY	49	0.146	0.505	0.808	1.485	1.637	1.813	2.120	2.763	3.939	4.329	4.329	1.518	0.967	
00118	VANCOUVER	38	0.040	0.102	0.127	0.221	0.262	0.298	0.350	0.458	1.148	1.250	1.250	0.280	0.253	
00111	VANCOUVER	68	0.013	0.052	0.147	0.195	0.251	0.310	0.389	0.473	0.530	0.684	0.684	0.241	0.160	
00303	VICTORIA	54	0.010	0.051	0.083	0.116	0.129	0.148	0.168	0.192	0.259	0.405	0.405	0.123	0.069	
60204	WINDSOR	67	0.180	0.373	0.653	0.989	1.068	1.301	1.490	2.112	2.197	3.265	3.265	1.084	0.659	
61901	WALPOLE ISLAND	23	0.009	0.103	0.206	0.380	0.416	0.696	1.019	1.182	1.197	1.596	1.596	0.519	0.430	

**Table B11 : Frequency Distribution of Scandium (Sc) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution												Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.			
30101	HALIFAX	50	ND	ND	ND	ND	0.003	0.003	0.004	0.005	0.006	0.008	0.008	0.002	0.002	
50104	MONTREAL	56	ND	ND	0.006	0.010	0.012	0.013	0.015	0.023	0.031	0.048	0.048	0.011	0.009	
50109	MONTREAL	40	ND	ND	0.010	0.017	0.021	0.025	0.027	0.030	0.032	0.032	0.032	0.017	0.010	
50307	QUEBEC CITY	53	ND	ND	0.004	0.006	0.009	0.010	0.012	0.016	0.024	0.044	0.044	0.008	0.008	
60104	OTTAWA	47	ND	ND	0.003	0.007	0.010	0.011	0.012	0.020	0.020	0.029	0.029	0.008	0.007	
60417	TORONTO	41	ND	ND	0.007	0.011	0.011	0.014	0.017	0.029	0.032	0.035	0.035	0.012	0.010	
70119	WINNIPEG	40	ND	ND	0.008	0.010	0.015	0.021	0.024	0.031	0.047	0.059	0.059	0.014	0.013	
90130	EDMONTON	34	ND	ND	0.004	0.008	0.009	0.010	0.013	0.015	0.017	0.021	0.021	0.008	0.006	
90204	CALGARY	49	ND	0.006	0.009	0.012	0.018	0.020	0.025	0.028	0.048	0.068	0.068	0.017	0.014	
00118	VANCOUVER	38	ND	ND	0.003	0.003	0.004	0.005	0.008	0.008	0.010	0.010	0.010	0.003	0.003	
00111	VANCOUVER	68	ND	ND	0.005	0.007	0.008	0.011	0.013	0.017	0.025	0.025	0.006	0.006		
00303	VICTORIA	54	ND	ND	ND	0.003	0.004	0.005	0.007	0.009	0.010	0.010	0.002	0.003		
60204	WINDSOR	67	ND	ND	0.006	0.011	0.016	0.018	0.024	0.032	0.036	0.054	0.054	0.014	0.012	
61901	WALPOLE ISLAND	23	ND	ND	0.003	0.011	0.011	0.012	0.015	0.017	0.022	0.024	0.024	0.009	0.007	

**Table B12 : Frequency Distribution of Titanium (Ti) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution Min. 10 30 50 60 70 80 90 95 99	Mean	Std.Dev.
30101	HALIFAX	50	ND 0.007 0.013 0.021 0.026 0.030 0.041 0.050 0.057 0.100	0.025	0.019
50104	MONTREAL	56	ND 0.012 0.028 0.041 0.048 0.059 0.064 0.112 0.161 0.182	0.052	0.042
50109	MONTREAL	40	0.014 0.027 0.058 0.074 0.082 0.091 0.123 0.134 0.175 0.211	0.080	0.043
50307	QUEBEC CITY	53	ND 0.006 0.016 0.025 0.030 0.039 0.053 0.060 0.087 0.152	0.032	0.028
60104	OTTAWA	47	ND 0.011 0.019 0.026 0.029 0.037 0.044 0.047 0.166 0.166	0.025	0.026
60417	TORONTO	41	ND 0.007 0.017 0.026 0.032 0.035 0.042 0.077 0.094 0.234	0.036	0.041
70119	WINNIPEG	40	ND 0.007 0.017 0.028 0.031 0.043 0.049 0.065 0.074 0.098	0.031	0.023
90130	EDMONTON	34	0.013 0.020 0.042 0.057 0.063 0.069 0.077 0.109 0.142 0.145	0.058	0.033
90204	CALGARY	49	0.006 0.014 0.029 0.044 0.047 0.057 0.061 0.074 0.095 0.095	0.042	0.021
00118	VANCOUVER	38	0.005 0.009 0.016 0.026 0.031 0.041 0.049 0.058 0.080 0.087	0.030	0.020
00111	VANCOUVER	68	ND 0.008 0.027 0.049 0.058 0.062 0.089 0.142 0.148 0.257	0.059	0.051
00303	VICTORIA	54	ND 0.005 0.016 0.021 0.025 0.026 0.031 0.041 0.048 0.064	0.022	0.014
60204	WINDSOR	67	ND 0.013 0.019 0.034 0.047 0.052 0.079 0.085 0.174 0.174	0.039	0.028
61901	WALPOLE ISLAND	23	ND ND 0.008 0.016 0.018 0.027 0.035 0.065 0.083 0.101	0.024	0.028

**Table B13 : Frequency Distribution of Vanadium (V) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution											Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.		
30101	HALIFAX	50	0.006	0.051	0.087	0.111	0.139	0.160	0.172	0.242	0.266	0.477	0.477	0.130	0.092
50104	MONTREAL	56	ND	ND	0.010	0.014	0.017	0.018	0.022	0.027	0.031	0.048	0.048	0.015	0.010
50109	MONTREAL	40	ND	0.010	0.016	0.019	0.020	0.022	0.024	0.045	0.051	0.072	0.072	0.021	0.013
50307	QUEBEC CITY	53	ND	ND	0.006	0.011	0.013	0.015	0.022	0.028	0.036	0.040	0.040	0.013	0.011
60104	OTTAWA	47	ND	ND	0.004	0.005	0.010	0.012	0.014	0.018	0.020	0.035	0.035	0.008	0.008
60417	TORONTO	41	ND	ND	ND	0.004	0.004	0.010	0.013	0.017	0.021	0.033	0.033	0.006	0.008
70119	WINNIPEG	39	ND	ND	ND	0.004	0.005	0.007	0.011	0.014	0.015	0.016	0.016	0.005	0.005
90130	EDMONTON	34	ND	ND	0.006	0.009	0.011	0.015	0.016	0.020	0.023	0.027	0.027	0.010	0.007
90204	CALGARY	49	ND	ND	0.005	0.008	0.010	0.013	0.014	0.019	0.019	0.021	0.021	0.009	0.006
00118	VANCOUVER	38	ND	0.004	0.007	0.012	0.014	0.017	0.019	0.022	0.025	0.028	0.028	0.012	0.007
00111	VANCOUVER	68	ND	ND	0.005	0.013	0.015	0.017	0.018	0.019	0.024	0.031	0.031	0.011	0.008
00303	VICTORIA	54	ND	ND	0.008	0.013	0.015	0.017	0.019	0.023	0.026	0.038	0.038	0.013	0.008
60204	WINDSOR	67	ND	ND	ND	0.005	0.007	0.008	0.014	0.025	0.027	0.031	0.031	0.007	0.009
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	ND	0.005	0.010	0.013	0.013	0.013	0.002	0.004

**Table B14 : Frequency Distribution of Chromium (Cr) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution	Min.	10	30	50	60	70	80	90	95	99	Max.	Mean	Std.Dev.
30101	HALIFAX	50	ND	0.004	0.007	0.011	0.012	0.014	0.015	0.017	0.028	0.028	0.028	0.008	0.006	
50104	MONTRÉAL	56	ND	0.004	0.010	0.011	0.014	0.016	0.018	0.020	0.038	0.038	0.038	0.010	0.007	
50109	MONTRÉAL	40	ND	0.009	0.011	0.014	0.015	0.017	0.018	0.023	0.024	0.030	0.030	0.014	0.006	
50307	QUEBEC CITY	53	ND	ND	ND	ND	0.004	0.006	0.008	0.009	0.014	0.016	0.021	0.021	0.005	
60104	OTTAWA	47	ND	ND	ND	ND	0.004	0.008	0.010	0.012	0.013	0.013	0.014	0.005	0.005	
60417	TORONTO	41	ND	ND	0.004	0.005	0.005	0.009	0.012	0.016	0.018	0.027	0.027	0.007	0.007	
70119	WINNIPEG	40	ND	ND	0.004	0.004	0.005	0.007	0.010	0.013	0.013	0.014	0.014	0.005	0.004	
90130	EDMONTON	34	0.004	0.007	0.011	0.014	0.016	0.017	0.019	0.024	0.029	0.029	0.013	0.005		
90204	CALGARY	49	ND	0.005	0.009	0.011	0.012	0.013	0.016	0.017	0.018	0.018	0.018	0.009	0.005	
00118	VANCOUVER	38	ND	0.003	0.005	0.008	0.010	0.012	0.015	0.018	0.020	0.020	0.020	0.007	0.006	
00111	VANCOUVER	68	ND	0.003	0.006	0.011	0.013	0.015	0.017	0.020	0.022	0.070	0.070	0.012	0.010	
00303	VICTORIA	54	ND	ND	ND	0.004	0.007	0.009	0.011	0.012	0.014	0.016	0.016	0.005	0.005	
60204	WINDSOR	67	ND	ND	ND	0.005	0.008	0.010	0.013	0.016	0.020	0.029	0.029	0.007	0.007	
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.004	0.006	0.006	0.001	

**Table B15 : Frequency Distribution of Manganese (Mn) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution												Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.			
30101	HALIFAX	50	0.004	0.008	0.013	0.015	0.017	0.018	0.022	0.024	0.027	0.053	0.053	0.016	0.008	
50104	MONTREAL	56	0.008	0.023	0.034	0.040	0.043	0.052	0.068	0.113	0.144	0.199	0.199	0.053	0.038	
50109	MONTREAL	40	0.019	0.029	0.056	0.069	0.073	0.098	0.112	0.136	0.185	0.371	0.371	0.083	0.061	
50307	QUEBEC CITY	53	0.006	0.008	0.014	0.021	0.024	0.029	0.035	0.040	0.052	0.076	0.076	0.024	0.015	
60104	OTTAWA	47	0.004	0.011	0.015	0.018	0.022	0.024	0.033	0.043	0.064	0.068	0.068	0.023	0.015	
60417	TORONTO	41	0.005	0.013	0.020	0.024	0.027	0.030	0.036	0.046	0.053	0.091	0.091	0.028	0.016	
70119	WINNIPEG	40	ND	0.009	0.012	0.015	0.017	0.021	0.026	0.031	0.033	0.039	0.039	0.017	0.009	
90130	EDMONTON	34	0.011	0.016	0.023	0.029	0.032	0.038	0.042	0.055	0.059	0.067	0.067	0.031	0.014	
90204	CALGARY	49	0.004	0.012	0.019	0.026	0.028	0.029	0.033	0.041	0.043	0.053	0.053	0.025	0.011	
00118	VANCOUVER	38	0.013	0.014	0.024	0.027	0.029	0.041	0.056	0.062	0.078	0.097	0.097	0.035	0.020	
00111	VANCOUVER	68	0.005	0.012	0.018	0.025	0.027	0.032	0.043	0.069	0.070	0.113	0.113	0.031	0.022	
00303	VICTORIA	54	ND	0.010	0.013	0.019	0.019	0.021	0.028	0.036	0.042	0.056	0.056	0.020	0.011	
60204	WINDSOR	67	0.004	0.013	0.017	0.026	0.034	0.039	0.051	0.066	0.074	0.114	0.114	0.033	0.022	
61901	WALPOLE ISLAND	23	ND	ND	0.004	0.009	0.010	0.012	0.014	0.017	0.027	0.035	0.035	0.010	0.008	

**Table B16 : Frequency Distribution of Iron (Fe) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution	Min.	10	30	50	60	70	80	90	95	99	Max.	Mean	Std.Dev.
30101	HALIFAX	50	0.048	0.065	0.146	0.213	0.244	0.283	0.338	0.418	0.506	2.486	2.486	0.266	0.343	
50104	MONTREAL	56	0.072	0.146	0.262	0.362	0.380	0.436	0.557	0.841	1.060	1.591	1.591	0.430	0.318	
50109	MONTREAL	40	0.195	0.286	0.610	0.786	0.808	0.901	1.034	1.353	1.391	1.747	1.747	0.778	0.357	
50307	QUEBEC CITY	53	0.025	0.084	0.132	0.203	0.244	0.323	0.435	0.621	0.771	1.275	1.275	0.285	0.255	
60104	OTTAWA	47	0.040	0.078	0.140	0.195	0.223	0.253	0.304	0.364	0.461	1.544	1.544	0.229	0.222	
60417	TORONTO	41	0.027	0.150	0.254	0.339	0.395	0.442	0.529	0.741	1.048	2.197	2.197	0.429	0.370	
70119	WINNIPEG	40	0.033	0.120	0.194	0.263	0.336	0.437	0.507	0.626	0.811	1.021	1.021	0.326	0.217	
90130	EDMONTON	34	0.155	0.228	0.457	0.647	0.730	0.779	0.994	1.162	1.378	1.590	1.590	0.684	0.364	
90204	CALGARY	49	0.074	0.197	0.304	0.543	0.576	0.626	0.678	0.726	0.939	1.009	1.009	0.487	0.226	
00118	VANCOUVER	38	0.084	0.115	0.168	0.235	0.264	0.399	0.445	0.623	0.769	0.909	0.909	0.313	0.206	
00111	VANCOUVER	68	0.060	0.130	0.299	0.429	0.508	0.590	0.676	0.759	0.839	0.927	0.927	0.445	0.232	
00303	VICTORIA	54	0.046	0.070	0.117	0.170	0.184	0.194	0.269	0.325	0.356	0.475	0.475	0.179	0.099	
60204	WINDSOR	67	0.104	0.205	0.343	0.518	0.662	0.932	1.173	1.650	1.870	2.477	2.477	0.729	0.563	
61901	WALPOLE ISLAND	23	0.003	0.038	0.093	0.174	0.204	0.290	0.311	0.466	0.649	0.915	0.915	0.232	0.217	

**Table B17 : Frequency Distribution of Cobalt (Co) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution												Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.			
30101	HALIFAX	50	ND	ND	ND	0.002	0.002	0.003	0.005	0.007	0.009	0.017	0.017	0.003	0.004	
50104	MONTREAL	56	ND	ND	0.001	0.002	0.004	0.004	0.005	0.007	0.008	0.010	0.010	0.003	0.003	
50109	MONTREAL	40	ND	ND	0.004	0.005	0.006	0.007	0.008	0.009	0.010	0.014	0.014	0.005	0.003	
50307	QUEBEC CITY	53	ND	ND	ND	0.002	0.002	0.004	0.004	0.006	0.010	0.010	0.010	0.002	0.003	
60104	OTTAWA	47	ND	ND	ND	0.002	0.003	0.003	0.004	0.005	0.005	0.006	0.006	0.002	0.002	
60417	TORONTO	41	ND	ND	0.001	0.002	0.003	0.004	0.004	0.006	0.007	0.017	0.017	0.003	0.003	
70119	WINNIPEG	40	ND	ND	ND	0.002	0.002	0.003	0.004	0.005	0.006	0.006	0.006	0.002	0.002	
90130	EDMONTON	34	ND	0.002	0.004	0.005	0.006	0.007	0.008	0.009	0.010	0.014	0.014	0.005	0.003	
90204	CALGARY	49	ND	ND	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.008	0.008	0.004	0.002	
00118	VANCOUVER	38	ND	ND	0.002	0.003	0.005	0.005	0.006	0.006	0.007	0.007	0.007	0.003	0.003	
00111	VANCOUVER	68	ND	ND	0.002	0.004	0.004	0.005	0.006	0.007	0.008	0.011	0.011	0.004	0.002	
00303	VICTORIA	54	ND	ND	0.002	0.002	0.003	0.004	0.004	0.005	0.006	0.006	0.006	0.002	0.002	
60204	WINDSOR	67	ND	ND	0.002	0.003	0.005	0.006	0.007	0.010	0.012	0.015	0.015	0.004	0.004	
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	ND	0.002	0.003	0.004	0.005	0.005	0.001	0.002	

**Table B18 : Frequency Distribution of Nickel (Ni) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution												Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.			
30101	HALIFAX	50	0.003	0.011	0.017	0.023	0.024	0.027	0.034	0.046	0.070	0.097	0.097	0.026	0.019	
50104	MONTREAL	56	0.001	0.003	0.004	0.005	0.006	0.007	0.008	0.010	0.012	0.018	0.018	0.006	0.003	
50109	MONTREAL	40	0.003	0.004	0.005	0.006	0.007	0.008	0.009	0.015	0.020	0.024	0.024	0.007	0.004	
50307	QUEBEC CITY	53	ND	0.001	0.003	0.004	0.005	0.005	0.007	0.009	0.011	0.013	0.013	0.005	0.003	
60104	OTTAWA	47	ND	0.001	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.008	0.008	0.003	0.002	
60417	TORONTO	41	ND	ND	0.003	0.004	0.004	0.005	0.006	0.007	0.007	0.009	0.009	0.004	0.002	
70119	WINNIPEG	40	ND	ND	0.001	0.002	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.002	0.001	
90130	EDMONTON	34	ND	ND	0.003	0.004	0.004	0.004	0.005	0.005	0.012	0.016	0.016	0.004	0.003	
90204	CALGARY	49	ND	ND	0.003	0.003	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.003	0.001	
00118	VANCOUVER	38	ND	0.004	0.005	0.006	0.006	0.007	0.008	0.011	0.012	0.014	0.014	0.006	0.003	
00111	VANCOUVER	68	0.001	0.003	0.004	0.006	0.006	0.008	0.009	0.010	0.012	0.018	0.018	0.006	0.003	
00303	VICTORIA	54	0.001	0.003	0.005	0.006	0.006	0.007	0.007	0.008	0.009	0.015	0.015	0.006	0.002	
60204	WINDSOR	67	ND	ND	0.002	0.003	0.003	0.004	0.005	0.006	0.008	0.010	0.010	0.003	0.002	
61801	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	0.001	0.002	0.002	0.003	0.010	0.010	0.001	0.002	

**Table B19 : Frequency Distribution of Copper (Cu) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution												Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.			
30101	HALIFAX	50	0.019	0.025	0.030	0.034	0.037	0.039	0.043	0.049	0.086	0.185	0.185	0.040	0.027	
50104	MONTREAL	56	0.012	0.020	0.029	0.037	0.039	0.042	0.046	0.055	0.090	0.177	0.177	0.040	0.026	
50109	MONTREAL	40	0.024	0.028	0.035	0.040	0.042	0.046	0.048	0.053	0.060	0.087	0.087	0.041	0.012	
50307	QUEBEC CITY	53	0.011	0.016	0.022	0.025	0.028	0.033	0.035	0.043	0.053	0.235	0.235	0.032	0.031	
60104	OTTAWA	47	ND	0.010	0.025	0.033	0.035	0.039	0.042	0.051	0.053	0.058	0.058	0.031	0.014	
60417	TORONTO	41	0.007	0.016	0.024	0.032	0.036	0.037	0.042	0.046	0.046	0.056	0.056	0.031	0.012	
70119	WINNIPEG	40	0.016	0.019	0.026	0.029	0.030	0.032	0.035	0.038	0.042	0.045	0.045	0.029	0.007	
90130	EDMONTON	34	0.021	0.026	0.032	0.036	0.036	0.040	0.042	0.058	0.082	0.091	0.091	0.039	0.015	
90204	CALGARY	49	0.007	0.019	0.026	0.031	0.032	0.034	0.038	0.042	0.046	0.054	0.054	0.030	0.009	
00118	VANCOUVER	38	ND	0.010	0.027	0.035	0.038	0.042	0.045	0.052	0.052	0.054	0.054	0.033	0.014	
00111	VANCOUVER	68	0.009	0.021	0.031	0.038	0.042	0.048	0.049	0.057	0.060	0.070	0.070	0.038	0.014	
00303	VICTORIA	54	0.004	0.021	0.028	0.033	0.034	0.036	0.039	0.046	0.047	0.076	0.076	0.032	0.011	
60204	WINDSOR	67	ND	ND	0.005	0.010	0.015	0.017	0.023	0.028	0.035	0.042	0.042	0.013	0.011	
61901	WALPOLE ISLAND	23	ND	ND	ND	0.005	0.010	0.012	0.014	0.016	0.016	0.016	0.016	0.007	0.006	

**Table B20 : Frequency Distribution of Zinc (Zn) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution												Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.			
30101	HALIFAX	50	0.001	0.009	0.013	0.021	0.026	0.030	0.038	0.056	0.080	0.946	0.946	0.043	0.131	
50104	MONTREAL	56	0.006	0.020	0.036	0.069	0.078	0.094	0.106	0.162	0.257	0.346	0.346	0.082	0.072	
50109	MONTREAL	40	0.013	0.047	0.069	0.104	0.109	0.131	0.164	0.233	0.272	0.709	0.709	0.124	0.112	
50307	QUEBEC CITY	53	0.007	0.012	0.026	0.035	0.049	0.061	0.090	0.132	0.357	0.493	0.493	0.072	0.101	
60104	OTTAWA	47	0.004	0.009	0.016	0.023	0.027	0.029	0.035	0.044	0.049	0.078	0.078	0.025	0.015	
60417	TORONTO	41	0.005	0.020	0.028	0.048	0.051	0.061	0.083	0.105	0.114	0.230	0.230	0.055	0.043	
70119	WINNIPEG	40	0.005	0.009	0.012	0.016	0.017	0.019	0.029	0.033	0.043	0.092	0.092	0.020	0.015	
90130	EDMONTON	34	0.009	0.013	0.018	0.022	0.024	0.028	0.035	0.044	0.049	0.064	0.064	0.025	0.012	
90204	CALGARY	49	0.006	0.009	0.016	0.024	0.027	0.031	0.035	0.042	0.059	0.075	0.075	0.025	0.015	
00118	VANCOUVER	38	0.015	0.019	0.034	0.053	0.065	0.083	0.099	0.111	0.178	0.629	0.629	0.074	0.099	
00111	VANCOUVER	68	0.007	0.016	0.029	0.040	0.044	0.050	0.056	0.062	0.079	0.138	0.138	0.041	0.022	
00303	VICTORIA	54	0.003	0.005	0.015	0.022	0.031	0.035	0.040	0.052	0.067	0.075	0.075	0.027	0.019	
60204	WINDSOR	67	0.009	0.030	0.049	0.099	0.147	0.165	0.201	0.343	0.401	0.645	0.645	0.138	0.128	
61901	WALPOLE ISLAND	23	ND	0.007	0.013	0.016	0.030	0.040	0.045	0.055	0.058	0.090	0.090	0.028	0.022	

**Table B21 : Frequency Distribution of Gallium (Ga) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution	Min.	10	30	50	60	70	80	90	95	99	Max.	Mean	Std.Dev.
30101	HALIFAX	50	ND	0.004	0.007	0.009	0.010	0.012	0.014	0.016	0.016	0.016	0.016	0.008	0.004	
50104	MONTREAL	56	ND	0.003	0.006	0.007	0.008	0.009	0.010	0.011	0.012	0.013	0.013	0.007	0.003	
50109	MONTREAL	40	0.002	0.005	0.007	0.008	0.009	0.010	0.010	0.011	0.012	0.012	0.012	0.008	0.002	
50307	QUEBEC CITY	53	ND	0.002	0.005	0.007	0.007	0.009	0.010	0.012	0.013	0.016	0.016	0.007	0.004	
60104	OTTAWA	47	ND	0.002	0.005	0.007	0.009	0.010	0.011	0.013	0.013	0.016	0.016	0.007	0.004	
60417	TORONTO	41	ND	0.002	0.004	0.007	0.008	0.009	0.010	0.011	0.013	0.014	0.014	0.007	0.004	
70119	WINNIPEG	40	0.001	0.005	0.007	0.008	0.010	0.011	0.013	0.014	0.017	0.019	0.019	0.009	0.004	
90130	EDMONTON	34	0.003	0.003	0.006	0.008	0.009	0.010	0.010	0.012	0.012	0.013	0.013	0.008	0.003	
90204	CALGARY	49	ND	0.003	0.006	0.007	0.009	0.010	0.011	0.013	0.013	0.015	0.015	0.008	0.004	
00118	VANCOUVER	38	ND	0.003	0.008	0.009	0.010	0.012	0.013	0.014	0.017	0.017	0.017	0.007	0.005	
00111	VANCOUVER	68	ND	0.004	0.008	0.009	0.010	0.011	0.013	0.015	0.017	0.017	0.017	0.009	0.003	
00303	VICTORIA	54	0.001	0.004	0.006	0.009	0.010	0.010	0.011	0.013	0.015	0.017	0.017	0.008	0.004	
60224	WINDSOR	67	ND	0.001	0.002	0.003	0.005	0.006	0.007	0.009	0.009	0.017	0.017	0.009	0.003	0.002
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	0.002	

**Table B22 : Frequency Distribution of Germanium (Ge) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution	Min.	10	30	50	60	70	80	90	95	99	Max.	Mean	Std.Dev.
30101	HALIFAX	50	ND	ND	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.001	0.001	0.001
50104	MONTRÉAL	56	ND	ND	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.003	0.001	0.001	0.001
50109	MONTRÉAL	40	ND	ND	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.002	0.002	0.001
50307	QUEBEC CITY	53	ND	ND	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.005	0.005	0.001	0.001	0.001
60104	OTTAWA	47	ND	ND	ND	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.003	0.001	0.001	0.001
60417	TORONTO	41	ND	ND	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.001	0.001
70119	WINNIPEG	40	ND	ND	ND	ND	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.001	0.001
90130	EDMONTON	34	ND	ND	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.001	0.001	0.001
90204	CALGARY	49	ND	ND	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.001
00118	VANCOUVER	38	ND	ND	ND	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.001	0.001	0.001
00111	VANCOUVER	68	ND	ND	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.006	0.006	0.002	0.002	0.001
00303	VICTORIA	54	ND	ND	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.004	0.002	0.002	0.001
60204	WINDSOR	67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.000	0.001
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.000	0.000

**Table B23 : Frequency Distribution of Arsenic (As) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution	Min.	10	30	50	60	70	80	90	95	99	Max.	Mean	Std.Dev.
30101	HALIFAX	50	ND	ND	ND	ND	ND	0.001	0.001	0.002	0.003	0.004	0.004	0.001	0.001	0.002
50104	MONTREAL	56	ND	ND	0.001	0.001	0.002	0.004	0.006	0.010	0.010	0.010	0.001	0.001	0.002	0.002
50109	MONTREAL	40	ND	ND	0.001	0.002	0.002	0.003	0.007	0.008	0.009	0.009	0.009	0.002	0.002	0.002
50307	QUEBEC CITY	53	ND	ND	ND	ND	ND	0.002	0.003	0.004	0.007	0.010	0.010	0.001	0.001	0.002
60104	OTTAWA	47	ND	ND	ND	ND	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.001	0.001	0.001
60417	TORONTO	41	ND	ND	0.001	0.001	0.002	0.002	0.003	0.003	0.004	0.004	0.004	0.001	0.001	0.001
70119	WINNIPEG	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
90130	EDMONTON	34	ND	ND	ND	ND	ND	0.001	0.001	0.002	0.005	0.009	0.009	0.001	0.002	0.002
90204	CALGARY	49	ND	ND	0.001	0.001	0.002	0.003	0.003	0.006	0.006	0.006	0.006	0.001	0.001	0.001
00118	VANCOUVER	38	ND	ND	0.001	0.001	0.002	0.004	0.007	0.011	0.011	0.011	0.011	0.002	0.002	0.002
00111	VANCOUVER	68	ND	ND	0.001	0.001	0.001	0.002	0.004	0.006	0.009	0.009	0.009	0.001	0.001	0.002
00303	VICTORIA	54	ND	ND	ND	ND	ND	0.001	0.001	0.002	0.002	0.004	0.004	0.001	0.001	0.001
60204	WINDSOR	67	ND	ND	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.004	0.001	0.001	0.001	0.001
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	0.001	0.001	0.001	0.002	0.002	0.002	0.000	0.000	0.000

**Table B24 : Frequency Distribution of Selenium (Se) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution	Min.	10	30	50	60	70	80	90	95	99	Max.	Mean	Std.Dev.
30101	HALIFAX	50	ND	0.001	0.001	0.001	0.002	0.006	0.008	0.014	0.023	0.03	0.005	0.001	0.001	0.006
50104	MONTREAL	56	ND	0.001	0.002	0.004	0.005	0.006	0.008	0.014	0.023	0.029	0.029	0.006	0.006	0.006
50109	MONTREAL	40	ND	0.002	0.002	0.003	0.003	0.004	0.005	0.011	0.015	0.019	0.019	0.004	0.004	0.004
50307	QUEBEC CITY	53	ND	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.023	0.023	0.002	0.003	0.003
60104	OTTAWA	47	ND	ND	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.001	0.001	0.001
60417	TORONTO	41	0.001	0.001	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.005	0.002	0.002	0.001
70119	WINNIPEG	40	ND	ND	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.003	0.001	0.001	0.001
90130	EDMONTON	34	ND	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.001	0.001
90204	CALGARY	49	ND	ND	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001
00116	VANCOUVER	38	ND	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.004	0.004	0.002	0.002	0.001
00111	VANCOUVER	68	ND	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.001	0.001	0.001
00303	VICTORIA	54	ND	ND	0.001	0.001	0.002	0.002	0.003	0.003	0.004	0.005	0.005	0.002	0.001	0.001
60204	WINDSOR	67	ND	0.002	0.003	0.004	0.005	0.006	0.006	0.007	0.007	0.007	0.003	0.003	0.002	0.002
61901	WALPOLE ISLAND	23	ND	ND	0.001	0.002	0.002	0.003	0.003	0.003	0.004	0.004	0.004	0.002	0.002	0.001

**Table B25 : Frequency Distribution of Bromine (Br) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution											Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.		
30101	HALIFAX	50	0.003	0.005	0.007	0.009	0.011	0.012	0.013	0.017	0.019	0.023	0.023	0.010	0.005
50104	MONTREAL	56	0.007	0.013	0.019	0.034	0.042	0.051	0.058	0.083	0.103	0.166	0.166	0.042	0.032
50109	MONTREAL	40	0.016	0.026	0.038	0.059	0.097	0.126	0.162	0.180	0.275	0.295	0.295	0.091	0.074
50307	QUEBEC CITY	53	0.009	0.011	0.018	0.041	0.046	0.060	0.077	0.112	0.164	0.249	0.249	0.053	0.051
60104	OTTAWA	47	0.005	0.007	0.012	0.018	0.025	0.028	0.042	0.058	0.083	0.103	0.103	0.026	0.023
60417	TORONTO	41	0.005	0.014	0.019	0.027	0.031	0.038	0.048	0.059	0.084	0.090	0.090	0.033	0.021
70119	WINNIPEG	40	0.004	0.009	0.012	0.016	0.018	0.020	0.025	0.033	0.037	0.060	0.060	0.018	0.010
90130	EDMONTON	34	0.009	0.016	0.028	0.037	0.044	0.048	0.062	0.070	0.098	0.150	0.150	0.043	0.027
90204	CALGARY	49	0.011	0.017	0.023	0.033	0.039	0.054	0.084	0.145	0.222	0.276	0.276	0.058	0.063
00118	VANCOUVER	38	0.025	0.031	0.054	0.069	0.090	0.136	0.206	0.366	0.501	0.546	0.546	0.130	0.136
00111	VANCOUVER	68	0.011	0.017	0.027	0.041	0.047	0.071	0.105	0.167	0.286	0.544	0.544	0.077	0.094
00303	VICTORIA	54	0.008	0.021	0.040	0.070	0.100	0.118	0.155	0.222	0.329	0.354	0.354	0.097	0.085
60204	WINDSOR	67	0.003	0.006	0.010	0.014	0.017	0.020	0.023	0.040	0.047	0.078	0.078	0.018	0.014
61901	WALPOLE ISLAND	23	ND	0.001	0.002	0.003	0.003	0.004	0.005	0.005	0.006	0.007	0.007	0.003	0.002

**Table B26 : Frequency Distribution of Rubidium (Rb) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution	Min.	10	30	50	60	70	80	90	95	99	Max.	Mean	Std.Dev.
30101	HALIFAX	50	ND	0.000	0.001	0.001	0.002	0.002	0.003	0.005	0.005	0.005	0.005	0.001	0.001	0.001
50104	MONTRÉAL	56	ND	0.000	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001
50109	MONTRÉAL	40	ND	0.000	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.004	0.004	0.004	0.001	0.001
50307	QUEBEC CITY	53	ND	0.000	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.003	0.003	0.001	0.001
60104	OTTAWA	47	ND	ND	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.001	0.001
60417	TORONTO	41	ND	ND	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.002	0.006	0.006	0.001	0.001
70119	WINNIPEG	40	ND	ND	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.001
90130	EDMONTON	34	ND	ND	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.003	0.001	0.001	0.001
90204	CALGARY	49	ND	ND	0.000	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.001	0.001
00118	VANCOUVER	38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
00111	VANCOUVER	68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
00303	VICTORIA	54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.001	0.000
60204	WINDSOR	67	ND	ND	ND	ND	ND	0.001	0.001	0.002	0.003	0.003	0.006	0.006	0.001	0.001
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	0.000	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.001

**Table B27 : Frequency Distribution of Strontium (Sr) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution	Min.	10	30	50	60	70	80	90	95	99	Max.	Mean	Std.Dev.
30101	HALIFAX	50	0.001	0.002	0.002	0.003	0.003	0.004	0.004	0.006	0.006	0.006	0.006	0.002	0.001	
50104	MONTREAL	56	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.011	0.014	0.022	0.022	0.006	0.004	
50109	MONTREAL	40	0.003	0.005	0.008	0.012	0.012	0.013	0.017	0.025	0.031	0.160	0.160	0.015	0.024	
50307	QUEBEC CITY	53	0.000	0.001	0.003	0.005	0.007	0.008	0.011	0.014	0.017	0.034	0.034	0.007	0.006	
60104	OTTAWA	47	0.001	0.001	0.002	0.003	0.004	0.004	0.005	0.005	0.006	0.007	0.011	0.011	0.004	0.002
60417	TORONTO	41	0.001	0.002	0.002	0.004	0.004	0.005	0.005	0.006	0.007	0.013	0.013	0.004	0.002	
70119	WINNIPEG	40	0.001	0.002	0.003	0.005	0.006	0.007	0.009	0.011	0.017	0.017	0.017	0.006	0.004	
90130	EDMONTON	34	0.002	0.002	0.003	0.004	0.004	0.005	0.005	0.006	0.007	0.010	0.010	0.010	0.004	0.002
90204	CALGARY	49	0.000	0.000	0.002	0.003	0.004	0.005	0.005	0.005	0.006	0.006	0.009	0.009	0.004	0.002
00118	VANCOUVER	38	0.001	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.010	0.011	0.011	0.003	0.002	
00111	VANCOUVER	68	0.001	0.001	0.002	0.003	0.003	0.003	0.004	0.005	0.005	0.006	0.006	0.003	0.001	
00303	VICTORIA	54	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.005	0.005	0.005	0.001	
60204	WINDSOR	67	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.009	0.011	0.014	0.014	0.005	0.003	
61901	WALPOLE ISLAND	23	ND	ND	0.001	0.001	0.002	0.003	0.003	0.004	0.006	0.009	0.009	0.002	0.002	

**Table B28 : Frequency Distribution of Yttrium (Y) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution	Min.	10	30	50	60	70	80	90	95	99	Max.	Mean	Std.Dev.
30101	HALIFAX	50	ND	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.004	0.004	0.001	
50104	MONTREAL	56	ND	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001	0.001	
50109	MONTREAL	40	ND	ND	0.000	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.001	0.001	
50307	QUEBEC CITY	53	ND	ND	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.001	0.001	
60104	OTTAWA	47	ND	ND	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.001	0.001	
60417	TORONTO	41	ND	ND	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.001	0.001	
70119	WINNIPEG	40	ND	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001	0.000	
90130	EDMONTON	34	ND	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001	0.000	
90204	CALGARY	49	ND	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001	0.000	
00118	VANCOUVER	38	ND	ND	0.000	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.001	
00111	VANCOUVER	68	ND	ND	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.033	0.033	0.004	0.004	
00303	VICTORIA	54	ND	ND	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001	
60204	WINDSOR	67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.000	

**Table B29 : Frequency Distribution of Zirconium (Zr) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution											Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.		
30101	HALIFAX	50	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.004	0.006	0.009	0.009	0.002	0.002
50104	MONTREAL	56	0.000	0.001	0.002	0.002	0.003	0.003	0.003	0.004	0.005	0.008	0.008	0.002	0.002
50109	MONTREAL	40	0.001	0.002	0.003	0.003	0.003	0.004	0.004	0.006	0.008	0.013	0.013	0.004	0.002
50307	QUEBEC CITY	53	ND	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.004	0.005	0.005	0.002	0.001
60104	OTTAWA	47	ND	ND	0.001	0.002	0.002	0.002	0.003	0.003	0.003	0.006	0.006	0.002	0.001
60417	TORONTO	41	ND	0.001	0.002	0.002	0.003	0.003	0.003	0.005	0.008	0.009	0.009	0.003	0.002
70119	WINNIPEG	40	0.001	0.001	0.002	0.003	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.002	0.001
90130	EDMONTON	34	ND	0.001	0.003	0.003	0.003	0.004	0.004	0.005	0.006	0.006	0.006	0.003	0.001
90204	CALGARY	49	ND	0.001	0.002	0.003	0.003	0.003	0.004	0.004	0.005	0.007	0.007	0.003	0.001
00118	VANCOUVER	38	ND	0.000	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.002	0.001
00111	VANCOUVER	68	ND	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.002	0.001
00303	VICTORIA	54	ND	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.001	0.001
60204	WINDSOR	67	ND	ND	0.000	0.001	0.001	0.001	0.002	0.002	0.003	0.005	0.005	0.001	0.001
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	0.000	0.001	0.001	0.002	0.003	0.005	0.005	0.001	0.001

**Table B30 : Frequency Distribution of Niobium (Nb) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution										Mean	Std.Dev.	
			Min.	10	30	50	60	70	80	90	95	99	Max.		
30101	HALIFAX	50	ND	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.004	0.004	0.001	0.001	
50104	MONTREAL	56	ND	ND	ND	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001
50109	MONTREAL	40	ND	ND	0.001	0.001	0.002	0.002	0.002	0.002	0.005	0.005	0.001	0.001	0.001
50307	QUEBEC CITY	53	ND	ND	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.001	0.001
60104	OTTAWA	47	ND	ND	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001
60417	TORONTO	41	ND	ND	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.001
70119	WINNIPEG	40	ND	ND	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.001	0.001
90130	EDMONTON	34	ND	0.000	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.001	0.001
90204	CALGARY	49	ND	ND	0.000	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.001
00118	VANCOUVER	38	ND	ND	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.001	0.001	0.001
00111	VANCOUVER	68	ND	ND	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.001	0.001	0.001
00303	VICTORIA	54	ND	ND	0.000	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001
60204	WINDSOR	67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000

**Table B31 : Frequency Distribution of Molybdenum (Mo) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution												Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.			
30101	HALIFAX	50	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.007	0.008	0.008	0.004	0.001	
50104	MONTREAL	56	ND	0.002	0.003	0.004	0.004	0.004	0.004	0.005	0.005	0.007	0.007	0.003	0.001	
50109	MONTREAL	40	0.002	0.003	0.003	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.004	0.001	
50307	QUEBEC CITY	53	ND	0.001	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.005	0.003	0.001	
60104	OTTAWA	47	ND	ND	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.003	0.002	
60417	TORONTO	41	ND	0.001	0.002	0.003	0.003	0.003	0.004	0.005	0.005	0.006	0.006	0.003	0.001	
70119	WINNIPEG	40	0.001	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.005	0.006	0.006	0.003	0.001	
90130	EDMONTON	34	ND	0.002	0.002	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.005	0.003	0.001	
90204	CALGARY	49	ND	0.001	0.003	0.003	0.003	0.003	0.004	0.004	0.005	0.007	0.007	0.003	0.001	
00118	VANCOUVER	38	ND	ND	0.001	0.003	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.003	0.002	
00111	VANCOUVER	68	ND	0.001	0.003	0.004	0.004	0.004	0.005	0.005	0.006	0.015	0.015	0.004	0.002	
00303	VICTORIA	54	ND	0.002	0.002	0.003	0.003	0.003	0.004	0.005	0.005	0.005	0.005	0.003	0.001	
60204	WINDSOR	67	ND	ND	ND	ND	0.001	0.001	0.002	0.002	0.003	0.004	0.004	0.001	0.001	
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.001	0.001	

**Table B32 : Frequency Distribution of Palladium (Pd) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution										Mean	Std.Dev.				
			Min.	10	30	50	60	70	80	90	95	99	Max.					
30101	HALIFAX	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.003	0.003	0.000	0.001
50104	MONTREAL	56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.003	0.004	0.004	0.001
50109	MONTRÉAL	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.003	0.003	0.003	0.001
50307	QUEBEC CITY	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.003	0.003	0.000	0.001
60104	OTTAWA	47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.003	0.003	0.000	0.001
60417	TORONTO	41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.003	0.003	0.000	0.001
70119	WINNIPEG	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.003	0.003	0.000	0.001
90130	EDMONTON	34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.002	0.003	0.000	0.000
90204	CALGARY	49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.003	0.003	0.000	0.001
00118	VANCOUVER	38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.003	0.003	0.006	0.001
00111	VANCOUVER	68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.003	0.005	0.005	0.001
00303	VICTORIA	54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.004	0.004	0.000	0.001
60204	WINDSOR	67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.003	0.003	0.000	0.001
61801	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.002	0.002	0.000	0.013

**Table B33 : Frequency Distribution of Silver(Ag) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution												Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.			
30101	HALIFAX	50	ND	ND	ND	ND	ND	ND	0.003	0.004	0.004	0.006	0.006	0.001	0.002	
50104	MONTREAL	56	ND	ND	ND	ND	ND	0.003	0.003	0.004	0.004	0.009	0.009	0.001	0.002	
50109	MONTREAL	40	ND	ND	ND	0.002	0.003	0.003	0.004	0.006	0.010	0.011	0.011	0.002	0.003	
50307	QUEBEC CITY	53	ND	ND	ND	ND	ND	0.002	0.003	0.003	0.006	0.007	0.007	0.001	0.002	
60104	OTTAWA	47	ND	ND	ND	ND	ND	ND	0.003	0.003	0.004	0.006	0.006	0.001	0.002	
60417	TORONTO	41	ND	ND	ND	ND	ND	ND	0.003	0.003	0.004	0.006	0.006	0.001	0.002	
70119	WINNIPEG	40	ND	ND	ND	ND	ND	ND	0.003	0.004	0.004	0.004	0.004	0.001	0.001	
90130	EDMONTON	34	ND	ND	ND	ND	ND	ND	0.003	0.003	0.004	0.004	0.004	0.001	0.001	
90204	CALGARY	49	ND	ND	ND	ND	ND	0.003	0.003	0.004	0.006	0.006	0.006	0.001	0.002	
00118	VANCOUVER	38	ND	ND	ND	ND	ND	0.003	0.003	0.003	0.004	0.004	0.004	0.001	0.001	
00111	VANCOUVER	68	ND	ND	ND	ND	ND	ND	0.003	0.003	0.004	0.004	0.004	0.001	0.001	
00303	VICTORIA	54	ND	ND	ND	ND	ND	ND	0.003	0.003	0.004	0.007	0.007	0.001	0.002	
60204	WINDSOR	67	ND	ND	ND	ND	ND	ND	ND	0.002	0.004	0.006	0.006	0.001	0.001	
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	ND	ND	0.002	0.002	0.002	0.002	0.000	0.001	

**Table B34 : Frequency Distribution of Cadmium (Cd) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution												Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.			
30101	HALIFAX	50	ND	ND	ND	ND	ND	ND	0.003	0.013	0.014	0.016	0.016	0.002	0.005	
50104	MONTREAL	56	ND	ND	ND	ND	ND	0.004	0.005	0.014	0.016	0.020	0.020	0.003	0.005	
50109	MONTREAL	40	ND	ND	ND	ND	ND	0.003	0.004	0.007	0.008	0.014	0.014	0.002	0.003	
50307	QUEBEC CITY	53	ND	ND	ND	ND	ND	ND	0.003	0.007	0.012	0.014	0.014	0.002	0.004	
60104	OTTAWA	47	ND	ND	ND	ND	ND	ND	ND	0.004	0.005	0.013	0.013	0.001	0.003	
60417	TORONTO	41	ND	ND	ND	ND	ND	ND	0.004	0.004	0.005	0.009	0.009	0.001	0.002	
70119	WINNIPEG	40	ND	ND	ND	ND	ND	ND	ND	ND	0.004	0.005	0.005	0.000	0.001	
90130	EDMONTON	34	ND	ND	ND	ND	ND	ND	ND	ND	0.004	0.004	0.004	0.000	0.001	
90204	CALGARY	49	ND	ND	ND	ND	ND	ND	0.004	0.011	0.012	0.013	0.013	0.002	0.004	
00118	VANCOUVER	38	ND	ND	ND	ND	0.004	0.004	0.011	0.014	0.015	0.017	0.017	0.004	0.006	
00111	VANCOUVER	68	ND	ND	ND	ND	ND	ND	0.004	0.004	0.005	0.010	0.010	0.001	0.002	
00303	VICTORIA	54	ND	ND	ND	ND	ND	ND	0.004	0.012	0.018	0.019	0.019	0.002	0.005	
60204	WINDSOR	67	ND	ND	ND	0.002	0.003	0.005	0.006	0.008	0.010	0.017	0.017	0.003	0.004	
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	ND	ND	0.002	0.002	0.003	0.003	0.000	0.001	

**Table B35 : Frequency Distribution of Indium (In) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution										Mean	Std.Dev.	
			Min.	10	30	50	60	70	80	90	95	99	Max.		
30101	HALIFAX	50	ND	ND	ND	ND	ND	ND	0.004	0.004	0.008	0.014	0.014	0.001	0.003
50104	MONTREAL	56	ND	ND	ND	ND	ND	ND	0.004	0.004	0.005	0.015	0.015	0.001	0.003
50109	MONTREAL	40	ND	ND	ND	ND	ND	ND	0.004	0.005	0.005	0.005	0.005	0.001	0.001
50307	QUEBEC CITY	53	ND	ND	ND	ND	ND	ND	0.004	0.005	0.005	0.007	0.007	0.001	0.002
60104	OTTAWA	47	ND	ND	ND	ND	ND	ND	0.004	0.004	0.009	0.009	0.009	0.001	0.002
60417	TORONTO	41	ND	ND	ND	ND	ND	ND	0.003	0.004	0.005	0.005	0.005	0.001	0.001
70119	WINNIPEG	40	ND	ND	ND	ND	ND	ND	0.003	0.004	0.004	0.005	0.005	0.001	0.002
90130	EDMONTON	34	ND	ND	ND	ND	ND	ND	0.004	0.005	0.005	0.007	0.007	0.001	0.002
90204	CALGARY	49	ND	ND	ND	ND	ND	ND	0.004	0.004	0.006	0.006	0.006	0.001	0.002
00118	VANCOUVER	38	ND	ND	ND	ND	ND	ND	0.004	0.004	0.005	0.005	0.005	0.001	0.001
00111	VANCOUVER	68	ND	ND	ND	ND	ND	ND	0.004	0.005	0.009	0.009	0.009	0.001	0.002
00303	VICTORIA	54	ND	ND	ND	ND	ND	ND	0.002	0.004	0.005	0.008	0.008	0.001	0.002
60204	WINDSOR	67	ND	ND	ND	ND	ND	ND	0.003	0.004	0.005	0.014	0.014	0.001	0.003
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	ND	0.007	0.009	0.010	0.010	0.010	0.001	0.003

**Table B37 : Frequency Distribution of Antimony (Sb) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution												Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.			
30101	HALIFAX	50	ND	ND	ND	0.005	0.005	0.007	0.010	0.013	0.015	0.017	0.017	0.005	0.005	
50104	MONTREAL	56	ND	ND	ND	ND	0.005	0.007	0.009	0.014	0.017	0.022	0.022	0.004	0.006	
50109	MONTREAL	40	ND	ND	0.005	0.006	0.007	0.012	0.012	0.014	0.016	0.017	0.017	0.007	0.005	
50307	QUEBEC CITY	53	ND	ND	ND	0.005	0.005	0.006	0.009	0.011	0.012	0.020	0.020	0.004	0.005	
60104	OTTAWA	47	ND	ND	ND	0.005	0.006	0.007	0.007	0.010	0.011	0.018	0.018	0.004	0.005	
60417	TORONTO	41	ND	ND	ND	ND	0.005	0.006	0.007	0.010	0.011	0.013	0.013	0.004	0.004	
70119	WINNIPEG	40	ND	ND	0.005	0.006	0.006	0.007	0.008	0.012	0.016	0.017	0.017	0.006	0.005	
90130	EDMONTON	34	ND	ND	0.005	0.006	0.007	0.009	0.011	0.018	0.019	0.033	0.033	0.007	0.007	
90204	CALGARY	49	ND	ND	ND	0.005	0.006	0.007	0.013	0.013	0.015	0.019	0.019	0.005	0.006	
00118	VANCOUVER	38	ND	ND	ND	0.006	0.007	0.008	0.009	0.011	0.018	0.022	0.022	0.006	0.005	
00111	VANCOUVER	68	ND	ND	ND	0.005	0.007	0.008	0.012	0.015	0.016	0.028	0.028	0.006	0.006	
00303	VICTORIA	54	ND	ND	ND	0.005	0.006	0.007	0.012	0.013	0.016	0.023	0.023	0.005	0.006	
60204	WINDSOR	67	ND	ND	ND	0.006	0.010	0.013	0.016	0.020	0.026	0.054	0.054	0.009	0.010	
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	0.014	0.016	0.019	0.019	0.027	0.027	0.006	0.009	

**Table B38 : Frequency Distribution of Tellurium (Te) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution											Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.		
30101	HALIFAX	50	ND	ND	ND	0.005	0.006	0.007	0.011	0.015	0.019	0.029	0.029	0.006	0.007
50104	MONTREAL	56	ND	ND	ND	ND	0.006	0.006	0.009	0.012	0.016	0.021	0.021	0.004	0.006
50109	MONTREAL	40	ND	ND	ND	0.005	0.006	0.007	0.008	0.014	0.015	0.021	0.021	0.005	0.005
50307	QUEBEC CITY	53	ND	ND	ND	ND	0.005	0.007	0.011	0.016	0.025	0.031	0.031	0.005	0.008
60104	OTTAWA	47	ND	ND	ND	0.004	0.006	0.006	0.007	0.012	0.014	0.024	0.024	0.004	0.006
60417	TORONTO	41	ND	ND	ND	ND	ND	0.006	0.008	0.017	0.017	0.030	0.030	0.005	0.008
70119	WINNIPEG	40	ND	ND	ND	ND	ND	0.006	0.009	0.013	0.014	0.017	0.017	0.004	0.005
90130	EDMONTON	34	ND	ND	ND	0.004	0.007	0.011	0.013	0.017	0.020	0.023	0.023	0.006	0.007
90204	CALGARY	49	ND	ND	ND	0.006	0.008	0.011	0.014	0.019	0.022	0.024	0.024	0.007	0.007
00118	VANCOUVER	38	ND	ND	ND	ND	0.005	0.006	0.006	0.015	0.026	0.029	0.029	0.004	0.007
00111	VANCOUVER	68	ND	ND	ND	ND	0.004	0.006	0.007	0.013	0.014	0.019	0.019	0.004	0.005
00303	VICTORIA	54	ND	ND	ND	0.005	0.007	0.011	0.013	0.016	0.023	0.030	0.030	0.007	0.008
60204	WINDSOR	67	ND	ND	ND	ND	ND	ND	0.006	0.009	0.013	0.030	0.030	0.003	0.005
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	ND	0.006	0.008	0.018	0.022	0.022	0.004	0.007

**Table B36 : Frequency Distribution of Tin (Sn) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution	Min.	10	30	50	60	70	80	90	95	99	Max.	Mean	Std.Dev.
30101	HALIFAX	50	0.005	0.010	0.018	0.020	0.021	0.022	0.024	0.027	0.029	0.029	0.029	0.019	0.005	
50104	MONTREAL	56	ND	0.005	0.016	0.019	0.021	0.024	0.027	0.030	0.042	0.042	0.042	0.018	0.008	
50109	MONTREAL	40	ND	0.016	0.019	0.021	0.022	0.024	0.027	0.037	0.041	0.074	0.074	0.023	0.011	
50307	QUEBEC CITY	53	ND	0.010	0.019	0.020	0.021	0.022	0.027	0.027	0.047	0.047	0.047	0.016	0.010	
60104	OTTAWA	47	ND	0.004	0.015	0.017	0.019	0.020	0.020	0.021	0.023	0.023	0.023	0.015	0.007	
60417	TORONTO	41	ND	0.008	0.015	0.019	0.021	0.022	0.023	0.025	0.025	0.027	0.027	0.017	0.007	
70119	WINNIPEG	40	ND	0.006	0.017	0.019	0.019	0.020	0.021	0.022	0.023	0.025	0.025	0.017	0.006	
90130	EDMONTON	34	ND	0.008	0.017	0.018	0.019	0.021	0.022	0.024	0.025	0.025	0.026	0.017	0.006	
90204	CALGARY	49	ND	0.006	0.016	0.018	0.019	0.020	0.021	0.023	0.023	0.024	0.024	0.017	0.006	
00118	VANCOUVER	38	ND	0.006	0.012	0.019	0.019	0.020	0.021	0.022	0.024	0.027	0.027	0.015	0.007	
00111	VANCOUVER	68	ND	ND	0.014	0.017	0.018	0.019	0.020	0.020	0.023	0.025	0.025	0.014	0.007	
00303	VICTORIA	54	ND	ND	0.016	0.019	0.020	0.020	0.022	0.022	0.026	0.028	0.028	0.016	0.008	
60204	WINDSOR	67	ND	ND	0.004	0.005	0.006	0.007	0.013	0.017	0.033	0.033	0.005	0.005	0.007	
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	0.005	0.008	0.009	0.011	0.012	0.012	0.012	0.003	0.004	

**Table B39 : Frequency Distribution of Iodine (I) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution										Mean	Std Dev.	
			Min.	10	30	50	60	70	80	90	95	99	Max.		
30101	HALIFAX	50	ND	ND	ND	0.005	0.006	0.007	0.009	0.015	0.016	0.019	0.019	0.005	0.006
50104	MONTREAL	56	ND	ND	ND	ND	ND	0.005	0.006	0.009	0.015	0.017	0.017	0.003	0.005
50109	MONTREAL	40	ND	ND	ND	ND	ND	0.005	0.006	0.008	0.009	0.015	0.015	0.002	0.004
50307	QUEBEC CITY	53	ND	ND	ND	ND	ND	0.006	0.007	0.008	0.009	0.016	0.016	0.003	0.004
60104	OTTAWA	47	ND	ND	ND	0.005	0.006	0.007	0.009	0.013	0.017	0.017	0.017	0.004	0.004
60417	TORONTO	41	ND	ND	ND	ND	ND	0.006	0.007	0.008	0.012	0.016	0.016	0.003	0.005
70119	WINNIPEG	40	ND	ND	ND	0.005	0.006	0.007	0.010	0.018	0.018	0.018	0.003	0.005	
90130	EDMONTON	34	ND	ND	ND	0.006	0.007	0.007	0.009	0.011	0.014	0.021	0.021	0.005	0.005
90204	CALGARY	49	ND	ND	ND	0.006	0.007	0.007	0.008	0.012	0.013	0.015	0.015	0.005	0.005
00118	VANCOUVER	38	ND	ND	ND	ND	ND	0.006	0.009	0.015	0.021	0.021	0.022	0.005	0.005
00111	VANCOUVER	68	ND	ND	ND	ND	0.006	0.006	0.007	0.011	0.015	0.018	0.018	0.004	0.005
00303	VICTORIA	54	ND	ND	ND	0.005	0.006	0.007	0.009	0.012	0.013	0.018	0.018	0.005	0.005
60204	WINDSOR	67	ND	ND	ND	ND	ND	0.006	0.008	0.015	0.015	0.001	0.003	0.001	0.001
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	0.004	0.004	0.004	0.004	0.000	0.001	0.001	0.001

**Table B40 : Frequency Distribution of Cesium (Cs) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution Min.	10	30	50	60	70	80	90	95	99	Max.	Mean	Std.Dev.
30101	HALIFAX	50	ND	ND	ND	ND	ND	ND	ND	ND	0.010	0.012	0.012	0.001	0.004
50104	MONTREAL	56	ND	ND	ND	ND	ND	ND	ND	ND	0.010	0.012	0.014	0.002	0.004
50109	MONTREAL	40	ND	ND	ND	ND	ND	ND	ND	ND	0.011	0.019	0.020	0.020	0.005
50307	QUEBEC CITY	53	ND	ND	ND	ND	ND	ND	ND	ND	0.012	0.013	0.020	0.020	0.005
60104	OTTAWA	47	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011	0.023	0.023	0.001
60417	TORONTO	41	ND	ND	ND	ND	ND	ND	ND	ND	0.009	0.010	0.017	0.017	0.004
70119	WINNIPEG	40	ND	ND	ND	ND	ND	ND	ND	ND	0.010	0.013	0.020	0.020	0.004
90130	EDMONTON	34	ND	ND	ND	ND	ND	ND	ND	ND	0.010	0.017	0.022	0.022	0.005
90204	CALGARY	49	ND	ND	ND	ND	ND	ND	ND	ND	0.008	0.010	0.010	0.010	0.003
00118	VANCOUVER	38	ND	ND	ND	ND	ND	ND	ND	ND	0.011	0.013	0.020	0.020	0.005
00111	VANCOUVER	68	ND	ND	ND	ND	ND	ND	ND	ND	0.010	0.011	0.024	0.024	0.004
00303	VICTORIA	54	ND	ND	ND	ND	ND	ND	ND	ND	0.009	0.012	0.014	0.014	0.004
60204	WINDSOR	67	ND	ND	ND	ND	ND	ND	ND	ND	0.007	0.008	0.008	0.000	0.002
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.008	0.008	0.000

**Table B41 : Frequency Distribution of Barium (Ba) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution							Mean	Std.Dev.	
			Min.	10	30	50	60	70	80	90	95	99
30101	HALIFAX	50	ND	ND	0.014	0.015	0.017	0.024	0.030	0.032	0.047	0.013
50104	MONTREAL	56	ND	ND	0.012	0.015	0.016	0.021	0.029	0.034	0.040	0.017
50109	MONTREAL	40	ND	0.015	0.021	0.038	0.041	0.045	0.048	0.060	0.077	0.036
50307	QUEBEC CITY	53	ND	ND	0.013	0.015	0.018	0.020	0.029	0.032	0.036	0.022
60104	OTTAWA	47	ND	ND	0.014	0.015	0.017	0.026	0.029	0.031	0.035	0.011
60417	TORONTO	41	ND	ND	0.014	0.015	0.018	0.024	0.033	0.036	0.045	0.014
70119	WINNIPEG	40	ND	ND	0.016	0.021	0.027	0.035	0.038	0.045	0.046	0.015
90130	EDMONTON	34	ND	0.011	0.016	0.024	0.026	0.030	0.033	0.038	0.041	0.045
90204	CALGARY	49	ND	0.012	0.015	0.019	0.024	0.030	0.038	0.039	0.041	0.017
00118	VANCOUVER	38	ND	ND	0.011	0.013	0.015	0.017	0.020	0.027	0.038	0.039
00111	VANCOUVER	68	ND	ND	0.011	0.014	0.016	0.018	0.020	0.033	0.036	0.015
00303	VICTORIA	54	ND	ND	0.014	0.016	0.017	0.019	0.026	0.034	0.041	0.013
60204	WINDSOR	67	ND	ND	0.008	0.009	0.010	0.012	0.016	0.022	0.025	0.009
61901	WALPOLE ISLAND	23	ND	ND	ND	ND	ND	ND	ND	0.009	0.012	0.013

**Table B42 : Frequency Distribution of Lanthanum (La) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution										Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.	
30101	HALIFAX	50	ND	ND	0.019	0.021	0.022	0.024	0.031	0.035	0.051	0.051	0.016	0.012
50104	MONTREAL	56	ND	ND	0.016	0.019	0.020	0.025	0.036	0.039	0.044	0.044	0.013	0.014
50109	MONTREAL	40	ND	ND	0.014	0.017	0.018	0.020	0.024	0.035	0.042	0.042	0.016	0.012
50307	QUEBEC CITY	53	ND	ND	0.015	0.017	0.020	0.024	0.037	0.040	0.048	0.048	0.013	0.014
60104	OTTAWA	47	ND	ND	0.016	0.018	0.020	0.021	0.037	0.039	0.041	0.041	0.013	0.014
60417	TORONTO	41	ND	ND	0.018	0.020	0.020	0.023	0.028	0.036	0.038	0.038	0.013	0.012
70119	WINNIPEG	40	ND	ND	0.018	0.019	0.022	0.024	0.037	0.041	0.042	0.042	0.016	0.013
90130	EDMONTON	34	ND	ND	0.016	0.018	0.019	0.021	0.025	0.039	0.041	0.041	0.013	0.011
90204	CALGARY	49	ND	ND	0.016	0.019	0.022	0.027	0.038	0.044	0.044	0.044	0.011	0.013
00118	VANCOUVER	38	ND	ND	0.017	0.019	0.020	0.024	0.036	0.040	0.042	0.042	0.013	0.013
00111	VANCOUVER	68	ND	ND	0.017	0.019	0.022	0.025	0.035	0.041	0.054	0.054	0.015	0.014
00303	VICTORIA	54	ND	ND	0.011	0.016	0.018	0.021	0.023	0.036	0.038	0.038	0.010	0.011
60204	WINDSOR	67	ND	ND	0.018	0.019	0.025	0.025	0.038	0.040	0.042	0.042	0.007	0.007
61901	WALPOLE ISLAND	23	ND	ND	0.011	0.012	0.017	0.017	0.017	0.017	0.017	0.017	0.002	0.005

**Table B43 : Frequency Distribution of Lead (Pb) Concentrations ( $\mu\text{g}/\text{m}^3$ )**

Station Number	City	No. of Samples	Frequency Distribution												Mean	Std.Dev.
			Min.	10	30	50	60	70	80	90	95	99	Max.			
30101	HALIFAX	50	0.010	0.020	0.025	0.033	0.043	0.057	0.062	0.078	0.082	0.115	0.115	0.042	0.024	
50104	MONTREAL	56	0.033	0.066	0.096	0.133	0.155	0.175	0.205	0.321	0.374	0.509	0.509	0.159	0.104	
50109	MONTREAL	40	0.054	0.121	0.161	0.196	0.295	0.381	0.421	0.597	0.721	1.007	1.007	0.290	0.203	
50307	QUEBEC CITY	53	0.036	0.050	0.087	0.136	0.156	0.215	0.282	0.354	0.431	0.810	0.810	0.181	0.153	
60104	OTTAWA	47	0.021	0.035	0.059	0.072	0.088	0.114	0.139	0.191	0.276	0.320	0.320	0.099	0.069	
60417	TORONTO	41	0.040	0.059	0.078	0.110	0.154	0.173	0.187	0.263	0.294	0.376	0.376	0.138	0.080	
70119	WINNIPEG	40	0.014	0.035	0.044	0.061	0.071	0.078	0.096	0.118	0.133	0.186	0.186	0.067	0.035	
90130	EDMONTON	34	0.037	0.068	0.112	0.153	0.179	0.189	0.211	0.278	0.318	0.436	0.436	0.163	0.084	
90204	CALGARY	49	0.045	0.074	0.102	0.138	0.148	0.210	0.296	0.457	0.658	0.788	0.788	0.205	0.174	
00118	VANCOUVER	38	0.093	0.110	0.182	0.234	0.312	0.436	0.594	0.984	1.455	1.490	1.490	0.399	0.366	
00111	VANCOUVER	68	0.043	0.071	0.117	0.158	0.206	0.233	0.379	0.536	0.789	1.399	1.399	0.252	0.245	
00303	VICTORIA	54	0.029	0.068	0.151	0.226	0.327	0.395	0.447	0.647	0.982	1.170	1.170	0.308	0.254	
60204	WINDSOR	67	0.017	0.037	0.051	0.063	0.070	0.080	0.087	0.104	0.137	0.145	0.145	0.068	0.029	
61901	WALPOLE ISLAND	23	0.005	0.008	0.010	0.014	0.017	0.020	0.021	0.023	0.041	0.052	0.052	0.017	0.011	